

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.

Note: Within this design document, only the segments and data elements are portrayed that are used for this implementation of the 811 transaction set. Although all X12 syntax and semantic notes have been included for each of these segments, notes about unused data do not affect the implementation.

Heading

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	001	ISA	Interchange Control Header	M	1		
M	002	GS	Functional Group Header	M	1		
M	010	ST	Transaction Set Header	M	1		
M	020	BIG	Beginning Segment for Invoice	M	1		
Must Use	050	REF	Reference Identification - Account Number	O	2		
	052	REF	Reference Identification - Cycle Info	O	2		
Must Use	070	ITD	Terms of Sale/Deferred Terms of Sale	O	1		
Must Use	080	DTM	Date/Time Reference - Start Date	O	1		
Must Use	081	DTM	Date/Time Reference - End Date	O	1		
						LOOP ID - N1	>1
Must Use	100	N1	Name - Customer	O	1		
Must Use	220	N3	Address Information	O	2		
Must Use	230	N4	Geographic Location	O	1		
						LOOP ID - N1	>1
Must Use	200	N1	Name - Company Name	O	1		
Must Use	220	N3	Address Information	O	2		
Must Use	230	N4	Geographic Location	O	1		



Detail

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
			LOOP ID - HL			>1	
M	010	HL	Hierarchical Level - Hierarchical Level 1 Loop	M	1		n1
			LOOP ID - LX			>1	
	020	LX	Assigned Number	O	1		
Must Use	060	AMT	Monetary Amount	O	1		
			LOOP ID - NM1			1	
Must Use	110	NM1	Individual or Organizational Name - Service Provider	O	1		n2
Must Use	115	PER	Administrative Communications Contact	O	1		
	118	TXI	Tax Information	O	1		
			LOOP ID - ITA			2	
	120	ITA	Allowance, Charge or Service	O	1		
			LOOP ID - HL			>1	
M	200	HL	Hierarchical Level - Hierarchical Level 2 Loop	M	1		
			LOOP ID - LX			>1	
	220	LX	Assigned Number	O	1		
Must Use	230	SI	Service Characteristic Identification	O	1		
Must Use	240	REF	Reference Identification	O	2		
Must Use	250	AMT	Monetary Amount	O	1		
	270	TXI	Tax Information	O	>1		
			LOOP ID - ITA			>1	
	280	ITA	Allowance, Charge or Service	O	1		
			LOOP ID - HL			50	
M	300	HL	Hierarchical Level - Hierarchical Level 4 Loop	M	1		
			LOOP ID - IT1			999999	
Must Use	320	IT1	Baseline Item Data (Invoice)	O	1		
Must Use	340	MSG	Message Text	O	10		
			LOOP ID - HL			>1	
M	400	HL	Hierarchical Level - Hierarchical Level 5 Loop	M	1		
			LOOP ID - LX			>1	
	410	LX	Assigned Number	O	1		
Must Use	420	SI	Service Characteristic Identification	O	1		
	340	PID	Product/Item Description	O	20		
Must Use	430	REF	Reference Identification	O	2		
Must Use	435	AMT	Monetary Amount	O	3		
			LOOP ID - QTY			2	
	440	QTY	Quantity	O	1		
			LOOP ID - HL			>1	
M	600	HL	Hierarchical Level - Hierarchical Level 8 Loop	M	1		



			LOOP ID - SLN			>1	
Must Use	610	SLN	Subline Item Detail	O		1	
	620	SI	Service Characteristic Identification	O		1	
	630	PID	Product/Item Description	O		100	
	660	DTM	Date/Time Reference	O		2	
	670	AMT	Monetary Amount	O		2	
			LOOP ID - HL			>1	
M	700	HL	Hierarchical Level - Hierarchical Level 9 Loop	M		1	
			LOOP ID - TCD			>1	
Must Use	740	TCD	Itemized Call Detail	O		1	
Must Use	750	SI	Service Characteristic Identification	O		1	

Summary

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	TDS	Total Monetary Value Summary	M	1		
			LOOP ID - ITA			300	
	020	ITA	Allowance, Charge or Service - Balance Transfer	O		1	
Must Use	030	DTM	Date/Time Reference	O		1	
			LOOP ID - BAL			>1	
Must Use	050	BAL	Balance Detail - Total Adjustments	O		1	
			LOOP ID - BAL			>1	
Must Use	060	BAL	Balance Detail - Previous Balance	O		1	
			LOOP ID - BAL			>1	
Must Use	070	BAL	Balance Detail - Total Payments	O		1	
			LOOP ID - BAL			>1	
Must Use	080	BAL	Balance Detail - Current Balance	O		1	
			LOOP ID - N1			1	
	110	N1	Name	O		1	
			LOOP ID - BAL			300	
	115	BAL	Balance Detail - Payment Detail	O		1	
	120	DTM	Date/Time Reference	O		1	
			LOOP ID - ITA			300	
	125	ITA	Allowance, Charge or Service - Adjustments and Credits	O		1	
	130	DTM	Date/Time Reference	O		1	
	115	CTT	Transaction Totals	O		1	n3
M	120	SE	Transaction Set Trailer	M		1	
M	130	GE	Functional Group Trailer	M		1	
M	140	IEA	Interchange Control Trailer	M		1	



Transaction Set Notes

- Valid codes for HL03 to define levels for this transaction set are given below: 1 - Service/Billing Provider (Identifies the Company Providing the Service/Billing) 2 - Billing Arrangement (Identifies a Specific Billing Arrangement) 3 - Sub-billing Arrangement (Identifies a More Detailed Billing Arrangement) 4 - Group (Identifies a Group of Charges on the Bill) 5 - Category (Identifies the Subdivision of the Group) 6 - Subcategory (Identifies a Further Breakdown of the Category) 7 - Type (Identifies a Further Breakdown of the Subcategory) 8 - Charge Detail (Identifies the Lowest Level of Charges within a Billing Arrangement) 9 - Line Detail (Identifies the Supporting Detail Associated with the Charge or Group Level) They must be used in the (hierarchical) order in which they are listed; however, certain levels are optional and may be omitted. At least one occurrence each of the service/billing provider level and group level is required.
- When used for telecommunications billing, the service/billing provider level is defined by the NM1 loop.
- The number of line items (CTT01) is the accumulation of the number of IT1 segments.

Segment: **ISA** Interchange Control Header

Position: 001

Loop:

Level: Heading

Usage: Mandatory

Max Use: 1

Purpose: To start and identify an interchange of zero or more functional groups and interchange-related control segments

Syntax Notes:

Semantic Notes:

Comments:

Business Rules: Variable Name: ISA1

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	TXI01	963	Tax Type Code Code specifying the type of tax CA City Tax Service Tax imposed by City CT County Tax FD Federal Tax Usage tax imposed by federal (US and Canadian) government FR Franchise Tax Tax imposed by municipality for the right to provide service FT Federal Excise Tax OT Occupational Tax Tax imposed on telecommunication companies for the right to provide service SC School Tax Tax collection by taxing authority for schools ST State Sales Tax ZZ Mutually Defined	M ID 2/2
M	TXI02	782	Monetary Amount Monetary amount	M R 1/18
>>	TXI04	955	Tax Jurisdiction Code Qualifier Code identifying the source of the data used in tax jurisdiction code	X ID 2/2



>>	TXI05	956	VD Tax Jurisdiction Code	Vendor defined	X	AN 1/10
				Code identifying the taxing jurisdiction		
>>	TXI07	662	Relationship Code		O	ID 1/1
				Code indicating the relationship between entities		
			O	Information Only		
				Charges which relate to but may not be included in or added to the unit price of the SLN. (i.e., compute WATS calculation based upon usage amounts)		
>>	TXI10	350	Assigned Identification		O	AN 1/20
				Alphanumeric characters assigned for differentiation within a transaction set		
				<i>Tax Description</i>		

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

Position: 280

Loop: ITA Optional

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To specify allowances, charges, or services

Syntax Notes: 1 If ITA02 is present, then at least one of ITA03 ITA13 or ITA14 is required.

2 If ITA08 is present, then ITA09 is required.

3 If either ITA10 or ITA11 is present, then the other is required.

4 If ITA15 is present, then ITA02 is required.

5 If ITA17 is present, then ITA12 is required.

Semantic Notes:

1 ITA09 is the allowance or charge percent.

2 ITA10 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.

3 ITA12 is the quantity of free goods.

Comments:

1 If ITA01 equals "A" - allowance or "C" - charge, then at least one of ITA06, ITA07, or ITA08 must be present.

2 ITA02 identifies the source of the code value in ITA03 or ITA15.

3 If ITA07 is present with either ITA06 or ITA08, then ITA07 takes precedence.

4 ITA13 is used to clarify the allowance, charge, or service.

5 ITA15 specifies the individual code list of the agency specified in ITA02.

6 ITA16 describes the relationship of ITA06, ITA07 or ITA09 to an associated segment.

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
M	ITA01	248	Allowance or Charge Indicator	M ID 1/1
			Code which indicates an allowance or charge for the service specified	
			C Charge	
	ITA02	559	Agency Qualifier Code	X ID 2/2
			Code identifying the agency assigning the code values	
			TI Telecommunications Industry	
M	ITA04	331	Allowance or Charge Method of Handling Code	M ID 2/2
			Code indicating method of handling for an allowance or charge	
			06 Charge to be Paid by Customer	
>>	ITA07	360	Allowance or Charge Total Amount	O N2 1/15
			Total dollar amount for the allowance or charge	
			<i>Surcharge Amount</i>	
>>	ITA13	352	Description	X AN 1/80



A free-form description to clarify the related data elements and their content

Surcharge description: "Discounts, Promotions and Fees"

ITA14	150	Special Charge or Allowance Code	X ID 3/3
		Code identifying type of special charge or allowance	
		230 Credit	
		AAJ Adjustments	
		ANB Adjustment for Minimum Charges Billing	
		DDS Deaf and Disabled Surcharge	
		Surcharge assessed to fund the provision of services to the handicapped by mandate of the local Public Utilities Commission	
		DSC Discount	
		EAD E911 Administration Charge	
		<i>Locally defined code</i>	
		FUS Federal Universal Service Surcharge	
		<i>Locally defined code</i>	
		IIA Invoice Adjustment	
		ISD Interest on security deposit	
		LPC Late payment charge	
		MSG Miscellaneous Charge	
		PCC Poison Control Center Surcharge	
		REE Regulatory Fee	
		Surcharge levied to fund a state regulatory commission	
		RFD Refund	
		Amount of refund awarded to the customer due to a regulatory committee action	
		RRR Regulatory required refund	
		SAP Service Assistance Program Surcharge	
		SER Service Charge	
		STC State Surcharge	
		Surcharge to provide funds to the state, (specific use of funds not available to TBWG at this time)	
		SUS State Universal Service	
		<i>Locally defined code</i>	
		UPD Usage Plan Detail Charge	
		Charges for providing additional usage details associated with a measured usage or Optional Calling Plan	
		ZZZ Mutually Defined	

ITA16	662	Relationship Code	O ID 1/1
		Code indicating the relationship between entities	
		O Information Only	
		Charges which relate to but may not be included in or added to the unit price of the SLN. (i.e., compute WATS calculation based upon usage amounts)	



Segment: **HL Hierarchical Level - Level 4 Loop**
Position: 300
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Syntax Notes:
Semantic Notes:
Comments:

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

Notes: *Control number of this HL with a value = 5 digits (ie 00001)*

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
M	HL01	Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure <i>control number of this HL</i>	M AN 1/12
	HL02	Hierarchical Parent ID Number Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to <i>HL01 value of parent HL1 or HL2</i>	O AN 1/12
M	HL03	Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure 4 Group Code identifying a group of charges on the bill	M ID 1/2
	HL04	Hierarchical Child Code 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.	O ID 1/1



Segment: **IT1** **Baseline Item Data (Invoice)**

Position: 320

Loop: IT1 Optional (Must Use)

Level: Detail

Usage: Optional (Must Use)

Max Use: 1

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

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

Semantic Notes: 1 IT101 is the purchase order line item identification.

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

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
IT101	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/20
IT102	358	Quantity Invoiced Number of units invoiced (supplier units) <i>Will always be '1'</i>	X R 1/10
IT103	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken M4 Monetary Value	X ID 2/2
IT104	212	Unit Price Price per unit of product, service, commodity, etc. <i>Charge Amount</i>	X R 1/17
IT106	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) SV Service Rendered	X ID 2/2
IT107	234	Product/Service ID Identifying number for a product or service <i>Following are the current code values and their Qwest service description:</i> 200 - Dedicated Services 210 - Calling Card 250 - Outbound Notification 400 - Equipment Other Charges	X AN 1/48



510 - Inbound Dedicated Usage
 520 - Inbound Switched Usage
 530 - Outbound Dedicated Usage
 550 - Outbound Switched Usage
 560 - Ring-To Number Usage
 570 - Calling Card Usage
 700 - Wholesale Dial Service
 800 - Audio Conferencing Service
 850 - Contact Center
 900 - Broadband Phone Service
 1000 - Toll Free Feature Charges
 1170 - Local Number Portability
 1200 - Data Products
 1310 - Qwest qZone Downloads
 1400 - VPN Service
 1450 - Remote Access
 1740 - Miscellaneous Charges
 * Secondary Accounts Current Charges
 * Zero Current Charges
 1810 - Ring-To Dedicated
 2100 - Discounts, Promotions and Fees
 2110 - Contract/Discounts

Segment: **MSG** Message Text

Position: 340

Loop: IT1 Optional (Must Use)

Level: Detail

Usage: Optional (Must Use)

Max Use: 10

Purpose: To provide a free-form format that allows the transmission of text information

Syntax Notes: 1 If MSG03 is present, then MSG02 is required.

Semantic Notes: 1 MSG03 is the number of lines to advance before printing.

Comments: 1 MSG02 is not related to the specific characteristics of a printer, but identifies top of page, advance a line, etc.
 2 If MSG02 is "AA - Advance the specified number of lines before print" then MSG03 is required.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	MSG01	933	Free-Form Message Text Free-form message text <i>Charge Description</i>	M AN 1/264



Segment: **HL Hierarchical Level - Level 5 Loop**
Position: 400
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Syntax Notes:
Semantic Notes:
Comments:

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

Notes: *Control number of this HL with a value = 5 digits (ie 00001)*

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	HL01	628	Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure <i>control number of this HL</i>	M AN 1/12
	HL02	734	Hierarchical Parent ID Number Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to <i>HL01value of the parent HL4</i>	O AN 1/12
M	HL03	735	Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure 5 Category Code identifying the sub-division of the group	M ID 1/2
	HL04	736	Hierarchical Child Code 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.	O ID 1/1



Segment: **LX** Assigned Number
Position: 410
Loop: LX Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To reference a line number in a transaction set
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	LX01	554	Assigned Number Number assigned for differentiation within a transaction set	M NO 1/6

Segment: **SI** Service Characteristic Identification
Position: 420
Loop: LX Optional
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify service characteristic data
Syntax Notes:

- If either SI04 or SI05 is present, then the other is required.
- If either SI06 or SI07 is present, then the other is required.
- If either SI08 or SI09 is present, then the other is required.
- If either SI10 or SI11 is present, then the other is required.
- If either SI12 or SI13 is present, then the other is required.
- If either SI14 or SI15 is present, then the other is required.
- If either SI16 or SI17 is present, then the other is required.
- If either SI18 or SI19 is present, then the other is required.
- If either SI20 or SI21 is present, then the other is required.

Semantic Notes:
Comments:

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

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	SI01	559	Agency Qualifier Code Code identifying the agency assigning the code values TI Telecommunications Industry	M ID 2/2
M	SI02	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics <i>10.4 authorized codes: 'BS' = Billing Structure Code</i> BS Billing Structure Code	M AN 2/2
M	SI03	234	Product/Service ID Identifying number for a product or service <i>Customer Account Number</i>	M AN 1/48
	SI04	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service	X AN 2/2



		characteristics		
		<i>10.4 authorized codes: 'TN' = Telephone Number</i>		
		<i>'CN' = Circuit Number Identification Code</i>		
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		
		<i>10.4 authorized codes: 'TN' = Telephone Number</i>		
		<i>'CN' = Circuit Number Identification Code</i>		
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		
		<i>10.4 authorized codes: 'TK' = Trunk Number/Identification</i>		
SI09	234	Product/Service ID	X	AN 1/48
		Identifying number for a product or service		

Segment: **PID** **Product/Item Description**

Position: 340
Loop: LX Optional
Level: Detail
Usage: Optional
Max Use: 20

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.

- 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.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	PID01	349	Item Description Type Code indicating the format of a description F Free-form	M ID 1/1
	PID05	352	Description A free-form description to clarify the related data elements and their content	X AN 1/80
			<i>Service Product Description</i>	



Segment: **REF** Reference Identification

Position: 430

Loop: LX Optional

Level: Detail

Usage: Optional (Must Use)

Max Use: 2

Purpose: To specify identifying information

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

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

Comments:

Data Element Summary

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

Segment: **AMT** Monetary Amount

Position: 435

Loop: LX Optional

Level: Detail

Usage: Optional (Must Use)

Max Use: 3

Purpose: To indicate the total monetary amount

Syntax Notes:

Semantic Notes:

Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	AMT01	522	Amount Qualifier Code Code to qualify amount FW Flat Fee Paid Current Month NR Nonrecurring PB Billed Amount Total amount due on the period bill	M ID 1/3
M	AMT02	782	Monetary Amount Monetary amount <i>If AMT01 = 'PB', then AMT02 = Service Amount</i> <i>If AMT01 = 'FW', then AMT02 = Service Amount Recurring</i> <i>If AMT01 = 'NR', then AMT02 = Service Amount Nonrecurring</i>	M R 1/18



Segment: **QTY** Quantity

Position: 440

Loop: QTY Optional

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To specify quantity information

Syntax Notes: 1 At least one of QTY02 or QTY04 is required.

2 Only one of QTY02 or QTY04 may be present.

Semantic Notes: 1 QTY04 is used when the quantity is non-numeric.

Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	QTY01	673	Quantity Qualifier Code specifying the type of quantity 99 Quantity Used Quantity of units used	M ID 2/2
>>	QTY02	380	Quantity Numeric value of quantity <i>If QTY03 = 'C0', then QTY02 = Total Calls</i> <i>If QTY03 = 'MJ', then QTY02 = Total Usage (Minutes)</i> <i>'0' is a valid quantity for either qualifier.</i>	X R 1/15
>>	QTY03	C001	Composite Unit of Measure To identify a composite unit of measure (See Figures Appendix for examples of use)	O
M	C00101	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken C0 Calls Number of calls handled MJ Minutes	M ID 2/2

Segment: **HL** Hierarchical Level - Level 8 Loop

Position: 600

Loop: HL Mandatory

Level: Detail

Usage: Mandatory

Max Use: 1

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

Syntax Notes:

Semantic Notes:

Comments:

- 1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data. The HL segment defines a top-down/left-right ordered structure.
- 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
- 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.



- 4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
- 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes: *HL(8) is optional. Either a level 8 or 9 is required as a child of HL(5). Control number of this HL with a value = 5 digits (ie 00001)*

Data Element Summary

Ref.	Data Element	Name	Attributes
M	HL01	628 Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure <i>control number of this HL</i>	M AN 1/12
	HL02	734 Hierarchical Parent ID Number Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to <i>HL01 value of parent HL5</i>	O AN 1/12
M	HL03	735 Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure 8 Charge Detail Code identifying the lowest level of charges within a billing arrangement	M ID 1/2
	HL04	736 Hierarchical Child Code 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.	O ID 1/1

Segment: **SLN Subline Item Detail**

Position: 610
Loop: SLN Optional (Must Use)

Level: Detail

Usage: Optional (Must Use)

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:** *When the HL segment for Level 8 indicates that there are no children, multiple SLN loops may appear at this level; otherwise there will be only one SLN loop per HL 8 loop.*

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	SLN01	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	M AN 1/20
M	SLN03	662	Relationship Code Code indicating the relationship between entities I Included	M ID 1/1
>>	SLN04	380	Quantity Numeric value of quantity <i>Default '1'</i>	X R 1/15
>>	SLN05	C001	Composite Unit of Measure To identify a composite unit of measure (See Figures Appendix for examples of use)	X
M	C00101	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken EA Each M4 Monetary Value MJ Minutes	M ID 2/2
>>	SLN06	212	Unit Price Price per unit of product, service, commodity, etc. <i>The unit price can represent the total dollar amount for a group of charges or the unit price for a single product or service.</i>	X R 1/17
>>	SLN08	662	Relationship Code Code indicating the relationship between entities I Included	O ID 1/1



Segment: **SI Service Characteristic Identification**

Position: 620

Loop: SLN Optional (Must Use)

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To specify service characteristic data

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

Semantic Notes:

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

Notes: This segment was not used prior to 2014/February release. With that release the Circuit Number data was moved from the HL8/SLN/PID segment to this segment. Previous coding was removed. As of the February release, the only data being sent in this segment is Circuit Number.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	SI01	559	Agency Qualifier Code Code identifying the agency assigning the code values TI Telecommunications Industry	M ID 2/2
M	SI02	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics <i>10.4 authorized code: 'CN' = Circuit Number Identification Code</i>	M AN 2/2
M	SI03	234	Product/Service ID Identifying number for a product or service	M AN 1/48

Segment: **PID Product/Item Description**

Position: 630

Loop: SLN Optional (Must Use)

Level: Detail

Usage: Optional

Max Use: 100

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.



- Comments:**
- 4 PID09 is used to identify the language being used in PID05.
 - 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
 - 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
 - 3 PID07 specifies the individual code list of the agency specified in PID03.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
M PID01	349	Item Description Type Code indicating the format of a description F Free-form	M ID 1/1
PID05	352	Description A free-form description to clarify the related data elements and their content <i>Service Product Description</i>	X AN 1/80

Segment: **DTM** Date/Time Reference

Position: 660

Loop: SLN Optional (Must Use)

Level: Detail

Usage: Optional

Max Use: 2

Purpose: To specify pertinent dates and times

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

Semantic Notes:

Comments:

Data Element Summary

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

Segment: **AMT** Monetary Amount

Position: 670

Loop: SLN Optional (Must Use)

Level: Detail

Usage: Optional

Max Use: 2

Purpose: To indicate the total monetary amount

Syntax Notes:

Semantic Notes:

Comments:



Data Element Summary

Ref.	Data Element	Name	Attributes
M	AMT01	522 Amount Qualifier Code Code to qualify amount FW Flat Fee Paid Current Month NR Nonrecurring	M ID 1/3
M	AMT02	782 Monetary Amount Monetary amount <i>If AMT01 = 'FW', then AMT02 = Recurring Charge</i> <i>If AMT01 = 'NR', then AMT02 = Nonrecurring Charge</i>	M R 1/18

Segment: **HL** Hierarchical Level - Level 9 Loop

Position: 700

Loop: HL Mandatory

Level: Detail

Usage: Mandatory

Max Use: 1

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

Syntax Notes:

Semantic Notes:

Comments:

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

Notes: *HL(9) is optional. Either a level 8 or 9 is required as a child of HL(5). Control number of this HL with a value = 5 digits (ie 00001)*

Data Element Summary

Ref.	Data Element	Name	Attributes
M	HL01	628 Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure <i>control number of this HL</i>	M AN 1/12
	HL02	734 Hierarchical Parent ID Number Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to <i>HL01 value of parent HL5</i>	O AN 1/12
M	HL03	735 Hierarchical Level Code	M ID 1/2



Code defining the characteristic of a level in a hierarchical structure
 9 Line Detail
 Code identifying the supporting detail associated with the charge or group

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: TCD Itemized Call Detail

Position: 740
Loop: TCD Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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.

Data Element Summary

Ref.	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 <i>Date of the call.</i>
>>	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) <i>Valid Format = HHMMSS</i>
>>	TCD04	309 Location Qualifier	X ID 1/2 Code identifying type of location



			<i>Code identifying the type of 'To' location.</i>		
			AC City and State		
			CI City		
>>	TCD05	310	Location Identifier	X	AN 1/30
			Code which identifies a specific location		
			<i>Call Termination City</i>		
	TCD06	156	State or Province Code	O	ID 2/2
			Code (Standard State/Province) as defined by appropriate government agency		
			<i>Call Termination State</i>		
>>	TCD07	309	Location Qualifier	X	ID 1/2
			Code identifying type of location		
			<i>Code identifying the type of 'From' location</i>		
			AC City and State		
			CI City		
>>	TCD08	310	Location Identifier	X	AN 1/30
			Code which identifies a specific location		
			<i>Call Termination City</i>		
	TCD09	156	State or Province Code	O	ID 2/2
			Code (Standard State/Province) as defined by appropriate government agency		
			<i>Call Termination State</i>		
>>	TCD10	739	Measurement Value	O	R 1/20
			The value of the measurement		
			<i>Duration of the call in minutes and tenths of minutes.</i>		
>>	TCD12	782	Monetary Amount	O	R 1/18
			Monetary amount		
			<i>Call Charge Amount</i>		
	TCD13	782	Monetary Amount	O	R 1/18
			Monetary amount		
			<i>Net amount after the discount has been applied to the amount in TCD12.</i>		
>>	TCD16	662	Relationship Code	O	ID 1/1
			Code indicating the relationship between entities		
			I Included		

Segment: **SI Service Characteristic Identification**

Position: 750

Loop: TCD Optional (Must Use)

Level: Detail

Usage: Optional (Must Use)

Max Use: 1

Purpose: To specify service characteristic data

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

Semantic Notes:

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



Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
M	SI01	559	Agency Qualifier Code Code identifying the agency assigning the code values TI Telecommunications Industry	M ID 2/2
M	SI02	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics <i>10.4 authorized code: 'FN' = From/originating station telephone number</i>	M AN 2/2
M	SI03	234	Product/Service ID Identifying number for a product or service <i>Call Originating Telephone Number</i>	M AN 1/48
>>	SI04	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics <i>10.4 authorized code: 'TM' = To/terminating station telephone number</i>	X AN 2/2
>>	SI05	234	Product/Service ID Identifying number for a product or service <i>Call Terminating Telephone Number</i>	X AN 1/48
	SI06	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics <i>10.4 authorized code: 'RP' - Rate Period Code</i>	X AN 2/2
	SI07	234	Product/Service ID Identifying number for a product or service <i>If SI06 = 'RP', then SI07 valid values are: '03' - Day '04' - Evening '05' - Night/Weekend '06' - Weekend (when separate from night)</i>	X AN 1/48
	SI08	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics <i>10.4 authorized code: 'MT' - Message Type</i>	X AN 2/2
	SI09	234	Product/Service ID Identifying number for a product or service <i>Valid values = 'CC' = Calling Card (Call Types: A through W) 'CL' = Collect (Call Types: D,B,O,H,K,V) 'CP' = Coin Paid (Call Types: C,E,P,F,I,J,L,U,W) 'SP' = Sent Paid/DDD (Call Types: A,G,T,M,N,R)</i>	X AN 1/48
	SI10	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics <i>10.4 authorized code: 'SD' - Settlement Code</i>	X AN 2/2
	SI11	234	Product/Service ID	X AN 1/48



Identifying number for a product or service

Valid Values:

'EE' = Interstate - InterLATA

'ER' = Interstate - IntraLATA

'IT' = International

'RE' = Intrastate - InterLATA

'RR' = Intrastate - IntraLATA

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.	Data		Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	
M	TDS01	610 Amount	M N2 1/15
		Monetary amount	
		<i>Total Current Charges</i>	

Segment: **ITA** Allowance, Charge or Service - Balance Transfer

Position: 020

Loop: ITA Optional

Level: Summary

Usage: Optional

Max Use: 1

Purpose: To specify allowances, charges, or services

Syntax Notes:

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

Semantic Notes:

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

Comments:

- 1 If ITA01 equals "A" - allowance or "C" - charge, then at least one of ITA06, ITA07, or ITA08 must be present.
- 2 ITA02 identifies the source of the code value in ITA03 or ITA15.
- 3 If ITA07 is present with either ITA06 or ITA08, then ITA07 takes precedence.
- 4 ITA13 is used to clarify the allowance, charge, or service.



- 5 ITA15 specifies the individual code list of the agency specified in ITA02.
- 6 ITA16 describes the relationship of ITA06, ITA07 or ITA09 to an associated segment.

Data Element Summary

Ref.	Data Element	Name	Attributes
M	ITA01	248 Allowance or Charge Indicator Code which indicates an allowance or charge for the service specified N No Allowance or Charge	M ID 1/1
	ITA02	559 Agency Qualifier Code Code identifying the agency assigning the code values TI Telecommunications Industry	X ID 2/2
M	ITA04	331 Allowance or Charge Method of Handling Code Code indicating method of handling for an allowance or charge ZZ Mutually Defined	M ID 2/2
	ITA07	360 Allowance or Charge Total Amount Total dollar amount for the allowance or charge	O N2 1/15
	ITA13	352 Description A free-form description to clarify the related data elements and their content <i>Surcharge Amount</i>	X AN 1/80
>>	ITA14	150 Special Charge or Allowance Code Code identifying type of special charge or allowance TRS Transferred Charges Adjustment for delayed charges or payments to an account number no longer in service	X ID 3/3
>>	ITA16	662 Relationship Code Code indicating the relationship between entities A Add	O ID 1/1

Segment: **DTM** Date/Time Reference

Position: 030

Loop: ITA Optional

Level: Summary

Usage: Optional (Must Use)

Max Use: 1

Purpose: To specify pertinent dates and times

Syntax Notes: 1 At least one of DTM02 DTM03 or DTM05 is required.

2 If DTM04 is present, then DTM03 is required.

3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:

Data Element Summary

Ref.	Data Element	Name	Attributes
M	DTM01	374 Date/Time Qualifier Code specifying type of date or time, or both date and time 007 Effective	M ID 3/3
>>	DTM02	373 Date Date expressed as CCYYMMDD	X DT 8/8



Segment: **BAL** Balance Detail - Total Adjustments

Position: 050

Loop: BAL Optional (Must Use)

Level: Summary

Usage: Optional (Must Use)

Max Use: 1

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

Syntax Notes:

Semantic Notes:

Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	BAL01	951	Balance Type Code Code indicating the type of balance A Adjustment	M ID 1/2
M	BAL02	522	Amount Qualifier Code Code to qualify amount NA Net Adjustment	M ID 1/3
M	BAL03	782	Monetary Amount Monetary amount <i>Total Adjustments</i>	M R 1/18

Segment: **BAL** Balance Detail - Previous Balance

Position: 060

Loop: BAL Optional (Must Use)

Level: Summary

Usage: Optional (Must Use)

Max Use: 1

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

Syntax Notes:

Semantic Notes:

Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	BAL01	951	Balance Type Code Code indicating the type of balance P Previous Month Balance of previous period charges prior to applying payments and adjustments for the previous period billing	M ID 1/2
M	BAL02	522	Amount Qualifier Code Code to qualify amount PB Billed Amount Total amount due on the period bill	M ID 1/3
M	BAL03	782	Monetary Amount Monetary amount <i>Previous Amount</i>	M R 1/18



Segment: **BAL** Balance Detail - Total Payments

Position: 070

Loop: BAL Optional (Must Use)

Level: Summary

Usage: Optional (Must Use)

Max Use: 1

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

Syntax Notes:

Semantic Notes:

Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	BAL01	951	Balance Type Code Code indicating the type of balance M Current Month	M ID 1/2
M	BAL02	522	Amount Qualifier Code Code to qualify amount TP Total payment amount	M ID 1/3
M	BAL03	782	Monetary Amount Monetary amount <i>Payment Amount</i>	M R 1/18

Segment: **BAL** Balance Detail - Current Balance

Position: 080

Loop: BAL Optional (Must Use)

Level: Summary

Usage: Optional (Must Use)

Max Use: 1

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

Syntax Notes:

Semantic Notes:

Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	BAL01	951	Balance Type Code Code indicating the type of balance M Current Month	M ID 1/2
M	BAL02	522	Amount Qualifier Code Code to qualify amount TT Total Transaction Amount	M ID 1/3
M	BAL03	782	Monetary Amount Monetary amount <i>Current Amount</i>	M R 1/18



Segment: **N1** Name

Position: 110

Loop: N1 Optional

Level: Summary

Usage: Optional

Max Use: 1

Purpose: To identify a party by type of organization, name, and code

Syntax Notes: 1 At least one of N102 or N103 is required.

2 If either N103 or N104 is present, then the other is required.

Semantic Notes:

Comments:

1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

2 N105 and N106 further define the type of entity in N101.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
M N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual SJ Service Provider Identifies name and address information as pertaining to a service provider for which billing is being rendered	M ID 2/3
N102	93	Name Free-form name "Qwest"	C AN 1/60
N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 42 Telecommunications Pseudo Carrier Identification Code A code similar to the standard Carrier Identification Code which is used to identify the local exchange service providers	C ID 1/2
N104	67	Identification Code Code identifying a party or other code "0432"	C AN 2/80



Segment: **BAL** Balance Detail - Payment Detail

Position: 115

Loop: BAL Optional

Level: Summary

Usage: Optional

Max Use: 1

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

Syntax Notes:

Semantic Notes:

Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	BAL01	951	Balance Type Code Code indicating the type of balance M Current Month	M ID 1/2
M	BAL02	522	Amount Qualifier Code Code to qualify amount C4 Prior Payment - Actual Amount paid in reality at an earlier time	M ID 1/3
M	BAL03	782	Monetary Amount Monetary amount <i>Current Balance Amount</i>	M R 1/18

Segment: **DTM** Date/Time Reference

Position: 120

Loop: BAL Optional

Level: Summary

Usage: Optional

Max Use: 1

Purpose: To specify pertinent dates and times

Syntax Notes: 1 At least one of DTM02 DTM03 or DTM05 is required.

2 If DTM04 is present, then DTM03 is required.

3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 007 Effective	M ID 3/3
	DTM02	373	Date Date expressed as CCYYMMDD	X DT 8/8



Segment: **ITA Allowance, Charge or Service - Adjustments and Credits**

Position: 125

Loop: ITA Optional

Level: Summary

Usage: Optional

Max Use: 1

Purpose: To specify allowances, charges, or services

Syntax Notes:

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

Semantic Notes:

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

Comments:

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

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
M	ITA01	248 Allowance or Charge Indicator	M ID 1/1	
		Code which indicates an allowance or charge for the service specified		
		N No Allowance or Charge		
	ITA02	559 Agency Qualifier Code	C ID 2/2	
		Code identifying the agency assigning the code values		
		TI Telecommunications Industry		
M	ITA04	331 Allowance or Charge Method of Handling Code	M ID 2/2	
		Code indicating method of handling for an allowance or charge		
		ZZ Mutually Defined		
	ITA07	360 Allowance or Charge Total Amount	O N2 1/15	
		Total dollar amount for the allowance or charge		
	ITA13	352 Description	C AN 1/80	
		A free-form description to clarify the related data elements and their content		
		<i>Adjustment Description</i>		
	ITA14	150 Special Charge or Allowance Code	C ID 3/3	
		Code identifying type of special charge or allowance		
		AAJ Adjustments		
	ITA16	662 Relationship Code	O ID 1/1	
		Code indicating the relationship between entities		
		O Information Only		
		Charges which relate to but may not be included in or added to the unit price of the SLN. (i.e., compute WATS calculation based upon usage amounts)		



Segment: **DTM** Date/Time Reference

Position: 130

Loop: ITA Optional

Level: Summary

Usage: Optional

Max Use: 1

Purpose: To specify pertinent dates and times

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

Semantic Notes:

Comments:

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 007 Effective	M ID 3/3
	DTM02	373	Date Date expressed as CCYYMMDD	C DT 8/8

Segment: **CTT** Transaction Totals

Position: 115

Loop:

Level: Summary

Usage: Optional

Max Use: 1

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

- Syntax Notes:**
- 1 If either CTT03 or CTT04 is present, then the other is required.
 - 2 If either CTT05 or CTT06 is present, then the other is required.

Semantic Notes:

- Comments:**
- 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	CTT01	354	Number of Line Items Total number of line items in the transaction set	M NO 1/6



Segment: **SE** Transaction Set Trailer

Position: 120

Loop:

Level: Summary

Usage: Mandatory

Max Use: 1

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

Syntax Notes:

Semantic Notes:

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

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M N0 1/10
M	SE02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set <i>A Serial number used to uniquely identify each EDI transaction. Contains the same value as ST02.</i>	M AN 4/9

Segment: **GE** Functional Group Trailer

Position: 130

Loop:

Level: Summary

Usage: Mandatory

Max Use: 1

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

Syntax Notes:

Semantic Notes: 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.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	GE01	97	Number of Transaction Sets Included Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	M N0 1/6
M	GE02	28	Group Control Number Assigned number originated and maintained by the sender	M N0 1/9



Segment: **IEA** Interchange Control Trailer
Position: 140
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To define the end of an interchange of zero or more functional groups and interchange-related control segments

Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	IEA01	I16	Number of Included Functional Groups A count of the number of functional groups included in an interchange	M N0 1/5
M	IEA02	I12	Interchange Control Number A control number assigned by the interchange sender	M N0 9/9

