Shared Loop
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40. SHARED LOOP

40.1 Business Description

Shared Loop provides a Competitive Local Exchange Carrier (CLEC) with the opportunity to offer advanced data services simultaneously with an existing end user's Qwest-provided analog, voice-grade service (POTS (Plain Old Telephone Service)) on a single metallic loop by using the frequency range above the voice band. The end user service considered candidates for Shared Loop are simple Business/Residential customers, either flat rate or measured (e.g. 1FR,1FB & 1MR)

A device called a POTS Splitter separates the voice and data traffic and allows the loop to be used for simultaneous data transmission and POTS service. Shared Loop from Qwest requires that the POTS service be provided to the end user by Qwest. The DLEC (Data Local Exchange Carrier) will use the data portion of the loop while Qwest will maintain the voice portion of the loop.

Shared Loop may also be referred to as "Line Sharing" or the "High Frequency Spectrum Network Element" (HUNE).

The following forms will be used between Qwest and the CLEC for Shared Loop, Shared Distribution Loop, Line Splitting, and Loop Splitting ordering purposes:

- LSR - Local Service Request
- EU - End User Information
- LS –Loop Service Request

The following Order Activity Matrices define the available Order and Line Activities for Shared Loop:

Business Rules for Combining Order and Line Activities
for **Shared Loop**

The same procedure will apply for the following products:
- Line Splitting
- Loop Splitting
- Shared Distribution Loop

Order Activity Definition

Req Type	ACT	Definition	Application	LNA	Forms required
AB	N	New Installation	Not Allowed	Not Applicable	
	D	Disconnect	Not Allowed	Not Applicable	
	W	Conversion As Is	Not Allowed	Not Applicable	
	V	Conversion As Specified	Not Allowed	Not Applicable	
	Z	Conversion As Specified, No Directory Listing	Not Allowed	Not Applicable	
	C	Change	Change to existing service. The CLEC could also remove line(s) from an existing service/account along with the request for Line Sharing/Shared Loop.	N, D, L, V	LSR, EU and LS
	T	Outside Move	Not Allowed	Not Applicable	
	L	Seasonal Suspend	Not Allowed	Not Applicable	
	Y	Deny	Not Allowed	Not Applicable	
	B	Restore	Not Allowed	Not Applicable	
	R	Record	Not Allowed	Not Applicable	
	M	Inside Move	Not Allowed	Not Applicable	

Line Activity Definition

LNA	Definition	Application
N	New Installation	New installation of Shared Loop service. Line changes from non-shared to shared line.
D	Disconnect	Termination of Shared Loop service. Line reverts from shared to original non-shared state. .
V	Conversion As Specified	Conversion of Shared Loop service from one DLEC/CLEC to another.
M	Inside Move	Move of existing Shared Loop connections when End User moves within the central office. For an End User move from one central office to another, use LNA=D (for existing line) and LNA=N (for new line).

40.2 Business Model

See Appendix H

40.3 Developer Worksheets

See Appendices B and C – Developer Worksheets - Order

40.4 Trading Partner Access Information

ORDERING FUNCTION	PRODUCT ID
Shared Loop Request	850SL
Shared Loop Supplemental	860SL
Status Update – Auto Push	855SU
Firm Order Confirmation	855FOC
Firm Order Confirmation for Supplemental	865FOC
Non Fatal Error Response	855NF
Non Fatal Error Response on Supplemental	865NF
Fatal Error Response	855FATAL
Fatal Error Response on Supplemental	865FATAL
Jeopardy	865JEOP
Completion	865COMP

Order Submittal

The process begins with an EDI Trading Partner Access Information between Qwest and the Co-Provider. The order request is transmitted by the Co-Provider via the EDI 850/860 format. Qwest will translate and forward the data to the internal application system. The request may activate the following responses:

- Firm Order Confirmation (FOC) - an indicator to the Co-Provider that the order has been accepted and successfully entered into the Qwest Service Order Processor systems.
- Order Completion - notification returned to the Co-Provider when a service request is completed.
- Error/Jeopardy Notification - notification to the Co-Provider of Fatal and/or Non-Fatal errors, detected either manually or by the system. Fatal errors prevent the order from processing. Non-Fatal errors occur after the order has successfully processed through the IMA system. Jeopardy Notification will be issued if Qwest has a problem meeting the commitment on the local service request.

40.4.1 OVERVIEW: Qwest Specific Functional Group Envelope - Routing Information

Separate maps have been created per ordering function. EDI envelopes are used for the initiation of translation processing and to invoke the correct map. In order to optimize interactive performance, the Co-Provider and Qwest agree to include only one transaction set per Functional Group, and one Functional Group per Interchange.

The Interchange envelope provides the Interchange Sender ID and Receiver ID information for EDI transport to deliver the transmission for external routing. The Functional Group Envelope routes the enclosed transaction set's output after translation to a specific application or application interface.

The Application Sender's Code (GS02) and Receiver's Code (GS03) are the linkage from the Functional Group Envelope to the translator's trading partner profile/relationship database in which the proper mapping and routing information are stored. In addition, the Functional Identifier Code (GS01) is the code identifying a group application related transaction sets.

40.4.2 ISA TABLE INFORMATION

ANSI X12 ISA and IEA definitions:

- The ISA segment is the Interchange Control Header.
  Purpose: To start and identify an interchange of zero or more functional groups and interchange related control segments.
- The IEA segment is the Interchange Control Trailer.
  Purpose: To define the end of an interchange of zero or more functional groups and interchange related control segments.

The Co-Provider and Qwest agree to the following routing information:

	SENT TO Qwest	**RECEIVED FROM Qwest**
ISA01	***'00'*** *(No Authorization information present)*	***'00'*** *(No Authorization information present)*
ISA02	***Spaces*** *(Authorization information)*	***Spaces*** *(Authorization information)*
ISA03	***'00'*** *(No Security information is present)*	***'00'*** *(No Security information is present)*
ISA04	***Spaces*** *(Security Information)*	***Spaces*** *(Security information)*
ISA05	*Co-Provider TP qualifier*	***'ZZ'*** *(Mutually Defined)*
ISA06	*Co-Provider TP ID*	***'QWESTO'*** *(Note: This Trading partner ID is used only for QWEST order and post-order transactions. The "O" is the unique identifier.)*
ISA07	***'ZZ'*** *(Mutually Defined)*	*Co-Provider TP qualifier*
ISA08	***'QWESTO'*** *(Note: This Trading partner ID is used only for QWEST order and post-order transactions. The "O" is the unique identifier.)*	Co-Provider TP ID
ISA09	*Date of the interchange. YYMMDD*	*Date of the interchange. YYMMDD*
ISA10	*Time of the interchange. HHMM (24 Hour Clock)*	*Time of the interchange. HHMM (24 Hour Clock)*
ISA11	***'U'*** *(U.S. EDI Community of ASC X-12, TDCC, and UCS)*	***'U'*** *(U.S. EDI Community of ASC X-12, TDCC, and UCS)*
ISA12	***'00402'*** *(Interchange Version ID)*	***'00402'*** *(Interchange Version ID)*
ISA13	*Sender's translator assigned sequential control number*	*Sender's translator assigned sequential control number*
ISA14	***'0'*** *(No acknowledgment requested)*	***'0'*** *(No acknowledgment requested)*
ISA15	***'P'*** *(Production data)*	***'P'*** *(Production data)*
ISA16	***'0x1f'*** *(Sub-element Separator)*	***'0x1f'*** *(Sub-element Separator)*

40.4.3 GS TABLE INFORMATION

ANSI X12 GS and GE segment definitions:

- The GS segment is the Functional Group Header.
  Purpose: To indicate the beginning of a functional group and provide control information.
- The GE segment is the Functional Group Trailer.
  Purpose: To indicate the end of a functional group and provide control information.

The Co-Provider and Qwest agree to the following routing information:

	SENT TO Qwest	**RECEIVED FROM Qwest**
GS01	***SEE GS TABLE BELOW***	***SEE GS TABLE BELOW***
GS02	Co-Provider TP ID	***SEE GS TABLE BELOW***
GS03	***SEE GS TABLE BELOW***	*Co-Provider TP ID*
GS04	*Date of the functional group. CCYYMMDD*	*Date of the functional group. CCYYMMDD*
GS05	*Time of the functional group. HHMM (24 hour clock)*	*Time of the functional group. HHMM (24 hour clock)*
GS06	*Sender's translator assigned sequential control number*	*Sender's translator assigned sequential control number*
GS07	***'X'** (Accredited Standards Committee X-12)*	***'X'** (Accredited Standards Committee X-12)*
GS08	***'004020'** (Version)*	***'004020'** (Version)*

GS Table

The Co-Provider and Qwest agree to the following routing information:

ORDERING FUNCTION	**Qwest SEND/ RECEIVE**	**DOCUMENT**	**GS01 VALUE**	**GS02 VALUE**	**GS03 VALUE**
Service Request	Receive	850SL	PO	*Co-Provider TP ID*	**SL90**
Status Update – Auto Push	Send	855SU	PR	**SU90**	*Co-Provider TP ID*
Firm Order Confirmation	Send	855FOC	PR	**FOC90**	*Co-Provider TP ID*
Non Fatal Error Response	Send	855NF	PR	**NF90**	*Co-Provider TP ID*
Fatal Error Response	Send	855FATAL	PR	**FATAL90**	*Co-Provider TP ID*
Jeopardy	Send	865JEOP	CA	**JEOP90**	*Co-Provider TP ID*
Completion	Send	865COMP	CA	**COMP90**	*Co-Provider TP ID*

Supplemental Order

Once an order has been initiated and received by Qwest the Co-Provider may submit an 860 Purchase Order Change Request to cancel, correct, or change the original order. In response to

receiving the 860 request from the Co-Provider, Qwest will transmit Functional Acknowledgments (997) and Purchase Order Change Acknowledgments (865).

GS Table (Supplemental)

The Co-Provider and Qwest agree to the following routing information:

ORDERING FUNCTION	Qwest SEND/ RECEIVE	DOCUMENT	GS01 VALUE	GS02 VALUE	GS03 VALUE
Supplemental	Receive	860SL	PC	*Co-Provider TP ID*	**SL90**
Status Update – Auto Push	Send	855SU	PR	**SU90**	*Co-Provider TP ID*
Firm Order Confirmation	Send	865FOC	CA	**FOC90**	*Co-Provider TP ID*
Non Fatal Error Response	Send	865NF	CA	**NF90**	*Co-Provider TP ID*
Fatal Error Response	Send	865FATAL	CA	**FATAL90**	*Co-Provider TP ID*
Jeopardy	Send	865JEOP	CA	**JEOP90**	*Co-Provider TP ID*
Completion	Send	865COMP	CA	**COMP90**	*Co-Provider TP ID*

40.4.4 MAPPING EXAMPLE AND DATA DICTIONARY ITEMS

Purchase Order (PO) Date

The Purchase Order (PO) Date is an ANSI ASC X12 mandatory field. The sender is expected to populate this field, Qwest however, will not map this date into the application file. For outbound transactions Qwest will populate this field with a date. This date is only used to satisfy ANSI ASC X12 standards and should not be used by the Co-Provider.

Time Code

The Developer Worksheet time code fields of every transaction (i.e., D/T SENT) is assumed as follows:

- Transaction set(s) originating from the Co-Provider - time code should be consistent with your time zone.
- Transaction set(s) originating at Qwest - time code is Mountain Time.

4020 Exceptions

Transaction sets 850, 855, 860 and 865 are used with the following exception:

- SLN loop maximum use has been changed to >1

Delimiters

The following delimiters will be used:

- Element Separator: HEX 7C = | (vertical bar or pipe)
- Sub-Element Separator: HEX 1F = (non-printable characters of “0x1f”)
- Segment Separator: HEX 0A = linefeed

Qwest Specific Fields

Order fields that are specific to the Qwest implementation were added to selected OBF forms and are indicated by an alpha following the field number, i.e., EU-19a (AHN). These fields are not defined in the OBF form for the corresponding LSOG issue.

Industry Standards Table:

OBF FORM	OBF ISSUE	EDI SOSC ISSUE	X12 STANDARD
End User	LSOG 5	ELMS 5	004020
Local Service Request	LSOG 5	ELMS 5	004020
Loop Service	LSOG 5	ELMS 5	004020
Status Updates			004020
Firm Order Confirmation			004020
Non Fatal Error Response			004020
Fatal Error Response			004020
Jeopardy			004020
Completion			004020

40.5 Mapping Examples

40.5.1 850 Shared Loop Service Request (850SL) – Version 4020

Legend of Symbols in this transaction example

Symbol/Definition	Example
{ } = Valid Format	{CCYYMMDD}
Bold/Italics = Developer's Worksheet Element	***PON***

Superscript = Developer's Worksheet Ref # DWS used in this mapping example:
LSR = Local Service Request
EU = End User
LS = Loop Service
	LSR-2

Italics = Literal	*GOOD*
Underline = Apply code conversion, used with ***Bold/Italics***. Code conversion tables can be found in the data dictionary of this disclosure.	***ACT***
[ ] = Segment notes for this line	[SI Segment repeats …]
( ) = Element notes for this line	(This element states …)
n	Counter 1…n
* = Element separator in this example and related data dictionary.	| = Actual element separator in an EDI transaction.
> = Sub-element separator in this example and related data dictionary.	non-printable characters of "0x1f" = Actual sub-element separator in an EDI transaction.

ST*850*TRAN SET CONTROL #
BEG*00*SS***PON**LSR-2****PO Date(See Trading Partner Access Information)
REF*11***AN**LSR-7****AN*
REF*12***BAN1**LSR-61****BAN1*
REF*JB***PROJECT**LSR-20
REF*SU***RTR**LSR-28****RTR*
REF*CO***RPON**LSR-51****RPON*
REF*1V***RORD**LSR-52****RORD*
PAM*48***PG_of_**LSR-10(1st 2 Bytes)*EA
PAM*47***PG_of_**LSR-10(2nd 2 Bytes)*EA
PAM*63***LQTY**LS-5**EA
SAC*N**TI*EEH [If this segment appears then ***AENG***LSR-32 = "Y"]
SAC*N**TI*OAC [If this segment appears then ***ALBR***LSR-33 = "Y"]
DTM*097***D/TSENT**{CCYYMMDD}LSR-12****D/TSENT**{HHMM}LSR-12
DTM*150***DDD**{CCYYMMDD}LSR-14
DTM*270***DATED**{CCYYMMDD}LSR-36
SI*TI*RE***REQTYP**LSR-23
SI*TI*AA***ACT**LSR-24
SI*TI*TY***TOS**LSR-44
SI*TI*NC***NC**LSR-46
SI*TI*NI***NCI**LSR-48
SI*TI*NJ***SEC NCI**LSR-50
PID*S**TI*AN***SO-RSQ***SCA**LSR-34
PID*S**TI*AO***SO-RSQ***AGAUTH**LSR-35
PID*S**TI*PENDING***SO-RSQ***PENDING ORDER**LSR-108b
N9*H7*ORI**LS****2W>***MANUAL IND**LS-40a
MTX****REMARKS**LS-40

N9*H7*ORI**LSR*****2W>***MANUAL IND***[LSR-108a]
MTX****REMARKS***[LSR-108]
N9*H7*ORI**EU*****2W>***MANUAL IND***[EU-63a]
MTX****REMARKS***[EU-63]
N1*78****CCNA***[LSR-1]
NX2*90****ACTL***[LSR-39]
PER*AG****INIT***[LSR-81]*TE****TEL NO***[LSR-82]*FX****FAX NO***[LSR-84]*EM****EMAIL***[LSR-83]
PER*CN****IMPCON***[LSR-91]*TE****TEL NO***[LSR-92]*BN****PAGER***[LSR-93]
N1*BT**92****ACNA***[LSR-64]

End User Form (Location and Access Section)

PO1*n*1*EA***ZZ**EU_SA [PO1 loop may repeat]
N1*IT****NAME***[EU-8]
N4****STATE***[EU-25]****ZIP***[EU-26]**RJ****CALA***[EU-26a]
NX2*01****SANO***[EU-11]
NX2*02****SASN***[EU-14]
NX2*03****SASD***[EU-13]
NX2*05****BOX***[EU-23c]
NX2*06****ROUTE***[EU-23b]
NX2*07****CITY***[EU-24]
NX2*39****AHN***[EU-23a]
NX2*40****SASS***[EU-16]
NX2*59****SAPR***[EU-10]
NX2*61****SASF***[EU-12]
NX2*62****SATH***[EU-15]
NX2****LD1***[EU-17]****LV1***[EU-18]
NX2****LD2***[EU-19]****LV2***[EU-20]
NX2****LD3***[EU-21]****LV3***[EU-22]
SI*TI*AF****AFT***[EU-9]

Unbundled Loop (LS Form - Service Details Section)

PO1*n*1*EA***ZZ**LS [PO1 Loop repeats ***LQTY***[LS-5] times]
SI*TI*SA****LNA***[LS-9]
SI*TI*TN****LINE SHARED TN***[LS-6a]
SI*TI*S2****POTSSPLITLOC***[LS-27b]
PAM*OC****CABCONNQTY***[LS-27c]*EA
REF*IX****LNUM***[LS-8]**LNUM*
REF*GP****TSP***[LS-11]
REF*AE****SAN***[LS-12]
REF*BS****POTSSPLIT***[LS-27a]
SLN**CABCONN**n*A*1*EA [SLN Loop may repeat ***CABCONNQTY***[LS-27c] times]
SI*TI*C8****CABCONNTYP***[LS-27d]
SI*TI*C9****CABCONN***[LS-27e]

Important Note: If none of the above PO1 loops are applicable a “Dummy” PO1 loop is used in this format:
PO1**DUMMY**1*EA***ZZ***DD*

CTT*Number of PO1 Segments
SE*Number of Segments*TRAN SET CONTROL #

40.5.2 860 Shared Loop Supplemental Service Request (860SL) - Version 4020

The 860SL is identical to the 850SL with the following exceptions:

ST*860*TRAN SET CONTROL #
BCH*__***SUP***__[LSR-25]*SS****PON***[LSR-2]*****VER*** [LSR-3]*PO Date(See Trading Partner Access Information)
POC*n*RZ******ZZ*?? (Where ?? = *EU_SA, LS*) [POC Loop may Repeat]

IMPORTANT NOTE: Dummy POC loops are not required on 860 transactions.

CTT*Number of POC Segments
SE*Number of Segments*TRAN SET CONTROL #

40.6 Data Dictionary

40.6.1 850 Shared Loop Service Request (850SL)

Functional Group ID=PO

Introduction:

The 850SL will be used by the Co-Provider to initiate a Shared Loop service request to Qwest.

This implementation guideline references the following:
1. ANSI ASC X12 Version 4020
2. LSOG 5 and Qwest assigned fields
3. TCIF/SOSC Guidelines ELMS 5

Notes:

This 850 Transaction includes the mappings for Local Service Request, End User, and Loop Service.

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	0100	ST	Transaction Set Header	M	1		
M	0200	BEG	Beginning Segment for Purchase Order	M	1		
	0500	REF	Reference Identification	O	>1		
	0950	PAM	Period Amount	O	10		
			LOOP ID - SAC			25	
	1200	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
	1500	DTM	Date/Time Reference	O	10		
	1850	SI	Service Characteristic Identification	O	>1		
	1900	PID	Product/Item Description	O	200		
			LOOP ID - N9			1000	
	2950	N9	Reference Identification	O	1		
	3000	MTX	Text	O	>1		
			LOOP ID - N9			1000	
	2950	N9	Reference Identification	O	1		
	3000	MTX	Text	O	>1		
			LOOP ID - N9			1000	
	2950	N9	Reference Identification	O	1		
	3000	MTX	Text	O	>1		
			LOOP ID - N1			200	
	3100	N1	Name	O	1		
	3450	NX2	Location ID Component	O	>1		
	3600	PER	Administrative Communications Contact	O	>1		

			LOOP ID - N1			200	
	3100	N1	Name	O	1		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - PO1			100000	
M	0100	PO1	Baseline Item Data - End User Form (Location and Access Section)	M	1		n1
			LOOP ID - N1			200	
	3500	N1	Name	O	1		
	3800	N4	Geographic Location	O	1		
	3850	NX2	Location ID Component	O	>1		
	4050	SI	Service Characteristic Identification	O	>1		
			LOOP ID - PO1			100000	
M	0100	PO1	Baseline Item Data - LS Form (Unbundled Loop)	M	1		n2
	0180	SI	Service Characteristic Identification	O	>1		
	0450	PAM	Period Amount	O	10		
	1000	REF	Reference Identification	O	>1		
			LOOP ID - SLN			>1	
	4700	SLN	Subline Item Detail	O	1		
	4800	SI	Service Characteristic Identification	O	>1		
			LOOP ID - PO1			100000	
M	0100	PO1	Baseline Item Data - DUMMY	M	1		n3

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - CTT			1	
	0100	CTT	Transaction Totals	O	1		n4
M	0300	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. PO102 is required.
2. PO102 is required.
3. PO102 is required.
4. The number of line items (CTT01) is the accumulation of the number of PO1 segments. If used, hash total (CTT02) is the sum of the value of quantities ordered (PO102) for each PO1 segment.

Segment: **ST** **Transaction Set Header**
Position: 0100
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).
2 The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition.
Comments:
Notes: ST*850*TRAN SET CONTROL #

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set 850 Purchase Order	**M**	**ID 3/3**
M	**ST02**	**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	**M**	**AN 4/9**

Segment: **BEG** **Beginning Segment for Purchase Order**
Position: 0200
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of the Purchase Order Transaction Set and transmit identifying numbers and dates
Syntax Notes:
Semantic Notes: **1** BEG05 is the date assigned by the purchaser to purchase order.
Comments:
Notes: BEG*00*SS*PON (LSR-2)**PO Date(See Trading Partner Access Information)

Data Element Summary

	Ref. Des. Attributes	Data Element	Name		
M	**BEG01**	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set 00 Original	**M**	**ID 2/2**
M	**BEG02**	**92**	**Purchase Order Type Code** Code specifying the type of Purchase Order SS Supply or Service Order	**M**	**ID 2/2**
M	**BEG03**	**324**	**Purchase Order Number** Identifying number for Purchase Order assigned by the orderer/purchaser PON (LSR-2) = Purchase Order Number	**M**	**AN 1/22**
M	**BEG05**	**373**	**Date** Date expressed as CCYYMMDD PO Date = Purchase Order Date(See Trading Partner Access Information)	**M**	**DT 8/8**

Segment: **REF** **Reference Identification**
Position: 0500
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:
Notes:

REF*11*AN (LSR-7)*AN
REF*12*BAN1 (LSR-61)*BAN1
REF*JB*PROJECT (LSR-20)
REF*SU*RTR (LSR-28)*RTR
REF*CO*RPON (LSR-51)*RPON
REF*1V*RORD (LSR-52)*RORD

Data Element Summary

Attributes	Ref. Des.	Data Element	Name		
M	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification		
			11 Account Number Number identifies a telecommunications industry account		
			12 Billing Account Account number under which billing is rendered		
			1V Related Vendor Order Number A vendor's order number that is in addition to a primary order number		
			CO Customer Order Number		
			JB Job (Project) Number		
			SU Special Processing Code Unique code identifying the special handling requirements for the claim		
	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		
			AN (LSR-7) = Account Number BAN1 (LSR-61) = Billing Account Number 1 PROJECT (LSR-20) = Project Identification RTR (LSR-28) = Response Type Requested RPON (LSR-51) = Related Purchase Order Number RORD (LSR-52) = Related Order Number		
	REF03	**352**	**Description**	**X**	**AN 1/80**
			A free-form description to clarify the related data elements and their content		
			"AN" "BAN1" "RTR"		

"RPON"
"RORD"

Segment: **PAM** **Period Amount**
Position: 0950
Loop:
Level: Heading
Usage: Optional
Max Use: 10
Purpose: To indicate a quantity, and/or amount for an identified period
Syntax Notes:
1 If any of PAM01 PAM02 or PAM03 is present, then all are required.
2 At least one of PAM02 PAM05 or PAM14 is required.
3 If either PAM04 or PAM05 is present, then the other is required.
4 If either PAM06 or PAM07 is present, then the other is required.
5 If PAM07 is present, then at least one of PAM08 or PAM09 is required.
6 If PAM07 is present, then PAM06 is required.
7 If PAM08 is present, then PAM07 is required.
8 If PAM09 is present, then PAM07 is required.
9 If PAM10 is present, then at least one of PAM11 or PAM12 is required.
10 If PAM11 is present, then PAM10 is required.
11 If either PAM13 or PAM14 is present, then the other is required.
Semantic Notes:
1 PAM10, PAM11, or PAM12 are used when two dates are required.
2 PAM15 indicates whether the monetary amount identified in PAM05 is a net or gross value. A "Y" indicates amount is a gross value; an "N" indicates amount is a net value.
Comments:
Notes:
PAM*48*PG_of_ (LSR-10) (1st 2 Bytes)*EA
PAM*47*PG_of_ (LSR-10) (2nd 2 Bytes)*EA
PAM*63*LQTY (LS-5)*EA

Data Element Summary

	Ref. Des.	Data Element	Name		
	Attributes				
	PAM01	**673**	**Quantity Qualifier**	**X**	**ID 2/2**
			Code specifying the type of quantity		
			47 Primary Net Quantity		
			48 Secondary Net Quantity		
			63 On Order Quantity		
	PAM02	**380**	**Quantity**	**X**	**R 1/15**
			Numeric value of quantity		
			First 2 bytes of PG_of_ (LSR-10) Second 2 bytes PG_of_ (LSR-10) LQTY (LS-5) = Loop Quantity		
	PAM03	**C001**	**Composite Unit of Measure**	**X**	
			To identify a composite unit of measure (See Figures Appendix for examples of use)		
M	**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: **SAC** **Service, Promotion, Allowance, or Charge Information**
Position: 1200
Loop: SAC Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge
Syntax Notes:
1 At least one of SAC02 or SAC03 is required.
2 If either SAC03 or SAC04 is present, then the other is required.
3 If either SAC06 or SAC07 is present, then the other is required.
4 If either SAC09 or SAC10 is present, then the other is required.
5 If SAC11 is present, then SAC10 is required.
6 If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7 If SAC14 is present, then SAC13 is required.
8 If SAC16 is present, then SAC15 is required.
Semantic Notes:
1 If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2 SAC05 is the total amount for the service, promotion, allowance, or charge.
If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
3 SAC08 is the allowance or charge rate per unit.
4 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
5 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
6 SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
7 SAC16 is used to identify the language being used in SAC15.
Comments:
1 SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction with SAC03 to further define SAC02.
2 In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.
Notes: SAC*N**TI*EEH [If this segment appears then AENG (LSR-32) ="Y"]
SAC*N**TI*OAC [If this segment appears then ALBR (LSR-33) = "Y"]

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**SAC01**	**248**	**Allowance or Charge Indicator** Code which indicates an allowance or charge for the service specified	**M**	**ID 1/1**

		N	No Allowance or Charge		
SAC03	**559**	**Agency Qualifier Code** Code identifying the agency assigning the code values		**X**	**ID 2/2**
		TI	Telecommunications Industry		
SAC04	**1301**	**Agency Service, Promotion, Allowance, or Charge Code** Agency maintained code identifying the service, promotion, allowance, or charge		**X**	**AN 1/10**
		EEH	Engineering Charge		
		OAC	Overtime Loading		

Segment: **DTM** **Date/Time Reference**
Position: 1500
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:
Notes:
DTM*097*D/TSENT{CCYYMMDD} (LSR-12)*D/TSENT{HHMM} (LSR-12)
DTM*150*DDD{CCYYMMDD} (LSR-14)
DTM*270*DATED{CCYYMMDD} (LSR-36)

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 097 Transaction Creation 150 Service Period Start 270 Date Filed	**M**	**ID 3/3**
	DTM02	**373**	**Date** Date expressed as CCYYMMDD D/TSENT (LSR-12) = Date Sent DDD (LSR-14) = Desired Due Date DATED (LSR-36) = Date of Agency Authorization	**X**	**DT 8/8**
	DTM03	**337**	**Time** 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) D/TSENT{HHMM} (LSR-12) = Time Sent	**X**	**TM 4/8**

Segment: **SI** **Service Characteristic Identification**
Position: 1850
Loop:
Level: Heading
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:
SI*TI*RE*REQTYP (LSR-23)
SI*TI*AA*ACT (LSR-24)
SI*TI*TY*TOS (LSR-44)
SI*TI*NC*NC (LSR-46)
SI*TI*NI*NCI (LSR-48)
SI*TI*NJ*SEC NCI (LSR-50)

Data Element Summary

	Ref. Des. Attributes	Data Element	Name			
M	**SI01**	**559**	**Agency Qualifier Code**		**M**	**ID 2/2**
			Code identifying the agency assigning the code values			
			TI	Telecommunications Industry		
M	**SI02**	**1000**	**Service Characteristics Qualifier**		**M**	**AN 2/2**
			Code from an industry code list qualifying the type of service characteristics			
			AA	Account Activity		
			NC	Network Channel		
			NI	Network Channel Interface		
			NJ	Secondary Network Channel Interface		
			RE	Requisition Type		
			TY	Type of Service		
M	**SI03**	**234**	**Product/Service ID**		**M**	**AN 1/48**
			Identifying number for a product or service			
			ACT (LSR-24) = Activity C = (DWS: C = Change) REQTYP(LSR-23) = Requisition Type and Status TOS (LSR-44) = Type of Service NC (LSR-46) = Network Channel Code NCI (LSR-48) = Network Channel Interface Code SEC NCI (LSR-50) = Secondary Network Channel Interface Code			

Segment: **PID** **Product/Item Description**
Position: 1900
Loop:
Level: Heading
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:
PID*S**TI*AN***SO-RSQ*SCA (LSR-34)
PID*S**TI*AO***SO-RSQ*AGAUTH (LSR-35)
PID*S**TI*PENDING***SO-RSQ*PENDING ORDER (LSR-108b)

Data Element Summary

	Ref. Des. Attributes	Data Element	Name			
M	**PID01**	**349**	**Item Description Type**		**M**	**ID 1/1**
			Code indicating the format of a description			
			S	Structured (From Industry Code List)		
	PID03	**559**	**Agency Qualifier Code**		**X**	**ID 2/2**
			Code identifying the agency assigning the code values			
			TI	Telecommunications Industry		
	PID04	**751**	**Product Description Code**		**X**	**AN 1/12**
			A code from an industry code list which provides specific data about a product characteristic			
			AN	Special Construction is Authorized		
			AO	Agency Authorization Status		
			PENDING	Pending Order		
	PID07	**822**	**Source Subqualifier**		**O**	**AN 1/15**
			A reference that indicates the table or text maintained by the Source Qualifier			
			SO-RSQ	Service Order - Reseller Questions list		

PID08	**1073**	**Yes/No Condition or Response Code**	**O**	**ID 1/1**
		Code indicating a Yes or No condition or response SCA (LSR-34) = Special Construction Authorization AGAUTH (LSR-35) = Agency Authorization Status PENDING ORDER (LSR-108b) = Pending Order Indicator		

Segment: **N9** **Reference Identification**
Position: 2950
Loop: N9 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier
Syntax Notes:
1 At least one of N902 or N903 is required.
2 If N906 is present, then N905 is required.
3 If either C04003 or C04004 is present, then the other is required.
4 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 N906 reflects the time zone which the time reflects.
2 N907 contains data relating to the value cited in N902.
Comments:
Notes: N9*H7*ORI*LS****2W>MANUAL IND (LS-40a)

Data Element Summary

	Ref. Des. Attributes	Data Element	Name		
M	**N901**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification		
			H7 Standard Clause		
	N902	**127**	**Reference Identification**	**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			ORI Order Instructions		
	N903	**369**	**Free-form Description**	**X**	**AN 1/45**
			Free-form descriptive text		
			"LS"		
	N907	**C040**	**Reference Identifier**	**O**	
			To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier		
M	**C04001**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification		
			2W Change Order Authority		
M	**C04002**	**127**	**Reference Identification**	**M**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			MANUAL IND (LS-40a) = Manual Indicator		

Segment: **MTX** **Text**
Position: 3000
Loop: N9 Optional
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To specify textual data
Syntax Notes:
1 If MTX01 is present, then MTX02 is required.
2 If MTX03 is present, then MTX02 is required.
3 If MTX05 is present, then MTX04 is required.
Semantic Notes:
1 MTX05 is the number of lines to advance before printing.
Comments:
1 If MTX04 is "AA - Advance the specific number of lines before print", then MTX05 is required.
Notes: MTX**REMARKS (LS-40)

Data Element Summary

Ref. Des.	Data Element	Name		Attributes
MTX02	**1551**	**Message Text** To transmit large volumes of message text REMARKS (LS-40) = Remarks	**X**	**AN 1/4096**

Segment: **N9** **Reference Identification**
Position: 2950
Loop: N9 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier
Syntax Notes:
1 At least one of N902 or N903 is required.
2 If N906 is present, then N905 is required.
3 If either C04003 or C04004 is present, then the other is required.
4 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 N906 reflects the time zone which the time reflects.
2 N907 contains data relating to the value cited in N902.
Comments:
Notes: N9*H7*ORI*LSR****2W>MANUAL IND (LSR-108a)

Data Element Summary

	Ref. Des.	Data Element	Name		
	Attributes				
M	**N901**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification		
			H7 Standard Clause		
	N902	**127**	**Reference Identification**	**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			ORI Order Instructions		
	N903	**369**	**Free-form Description**	**X**	**AN 1/45**
			Free-form descriptive text		
			"LSR"		
	N907	**C040**	**Reference Identifier**	**O**	
			To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier		
M	**C04001**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification		
			2W Change Order Authority		
M	**C04002**	**127**	**Reference Identification**	**M**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			MANUAL IND (LSR-108a) = Manual Indicator		

Segment: **MTX** **Text**
Position: 3000
Loop: N9 Optional
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To specify textual data
Syntax Notes:
1 If MTX01 is present, then MTX02 is required.
2 If MTX03 is present, then MTX02 is required.
3 If MTX05 is present, then MTX04 is required.
Semantic Notes:
1 MTX05 is the number of lines to advance before printing.
Comments:
1 If MTX04 is "AA - Advance the specific number of lines before print", then MTX05 is required.
Notes: MTX**REMARKS (LSR-108)

Data Element Summary

Ref. Des.	Data Element	Name		Attributes
MTX02	**1551**	**Message Text** To transmit large volumes of message text REMARKS (LSR-108) = Remarks	**X**	**AN 1/4096**

Segment: **N9** **Reference Identification**
Position: 2950
Loop: N9 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier
Syntax Notes:
1 At least one of N902 or N903 is required.
2 If N906 is present, then N905 is required.
3 If either C04003 or C04004 is present, then the other is required.
4 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 N906 reflects the time zone which the time reflects.
2 N907 contains data relating to the value cited in N902.
Comments:
Notes: N9*H7*ORI*EU****2W>MANUAL IND (EU-63a)

Data Element Summary

	Ref. Des.	Data Element	Name		
	Attributes				
M	**N901**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification		
			H7 Standard Clause		
	N902	**127**	**Reference Identification**	**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			ORI Order Instructions		
	N903	**369**	**Free-form Description**	**X**	**AN 1/45**
			Free-form descriptive text		
			"EU"		
	N907	**C040**	**Reference Identifier**	**O**	
			To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier		
M	**C04001**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification		
			2W Change Order Authority		
M	**C04002**	**127**	**Reference Identification**	**M**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			MANUAL IND (EU-63a) = Manual Indicator		

Segment: **MTX** **Text**
Position: 3000
Loop: N9 Optional
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To specify textual data
Syntax Notes:
1 If MTX01 is present, then MTX02 is required.
2 If MTX03 is present, then MTX02 is required.
3 If MTX05 is present, then MTX04 is required.
Semantic Notes:
1 MTX05 is the number of lines to advance before printing.
Comments:
1 If MTX04 is "AA - Advance the specific number of lines before print", then MTX05 is required.
Notes: MTX**REMARKS (EU-63)

Data Element Summary

Ref. Des.	Data Element	Name		Attributes
MTX02	**1551**	**Message Text** To transmit large volumes of message text REMARKS (EU-63) = Remarks	**X**	**AN 1/4096**

Segment: **N1** **Name**
Position: 3100
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: N1*78*CCNA (LSR-1)

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 78 Service Requester	**M**	**ID 2/3**
	N102	**93**	**Name** Free-form name CCNA (LSR-1) = Customer Carrier Name Abbreviation	**X**	**AN 1/60**

Segment: **NX2** **Location ID Component**
Position: 3450
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To define types and values of a geographic location
Syntax Notes:
Semantic Notes:
Comments:
Notes: NX2*90*ACTL (LSR-39)

Data Element Summary

	Ref. Des. Attributes	Data Element	Name		
M	**NX201**	**1106**	**Address Component Qualifier** Code qualifying the type of address component 90 Access Customer Terminal Location (ACTL)	**M**	**ID 2/2**
M	**NX202**	**166**	**Address Information** Address information ACTL (LSR-39) = Access Customer Terminal Location	**M**	**AN 1/55**

Segment: **PER** **Administrative Communications Contact**
Position: 3600
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax Notes: **1** If either PER03 or PER04 is present, then the other is required.
2 If either PER05 or PER06 is present, then the other is required.
3 If either PER07 or PER08 is present, then the other is required.
Semantic Notes:
Comments:
Notes: PER*AG*INIT (LSR-81)*TE*TEL NO (LSR-82)*FX*FAX NO (LSR-84)*EM*EMAIL (LSR-83)

PER*CN*IMPCON (LSR-91)*TE*TEL NO (LSR-92)*BN*PAGER (LSR-93)

Data Element Summary

	Ref. Des. Attributes	Data Element	Name		
M	**PER01**	**366**	**Contact Function Code** Code identifying the major duty or responsibility of the person or group named AG Agent CN General Contact	**M**	**ID 2/2**
	PER02	**93**	**Name** Free-form name INIT (LSR-81) = Initiator Identification IMPCON (LSR-91) = Implementation Contact	**O**	**AN 1/60**
	PER03	**365**	**Communication Number Qualifier** Code identifying the type of communication number TE Telephone	**X**	**ID 2/2**
	PER04	**364**	**Communication Number** Complete communications number including country or area code when applicable TEL NO (LSR-82) = Telephone Number TEL NO (LSR-92) = Telephone Number	**X**	**AN 1/256**
	PER05	**365**	**Communication Number Qualifier** Code identifying the type of communication number BN Beeper Number FX Facsimile	**X**	**ID 2/2**
	PER06	**364**	**Communication Number** Complete communications number including country or area code when applicable PAGER (LSR-93) = Pager Number FAX NO (LSR-84) = Facsimile Number	**X**	**AN 1/256**
	PER07	**365**	**Communication Number Qualifier** Code identifying the type of communication number EM Electronic Mail	**X**	**ID 2/2**

PER08	**364**	**Communication Number**	**X**	**AN 1/256**
		Complete communications number including country or area code when applicable EMAIL (LSR-83) = Electronic Mail Address		

Segment: **N1** **Name**
Position: 3100
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: N1*BT**92*ACNA (LSR-64)

Data Element Summary

	Ref. Des.	Data Element	Name		
	Attributes				
M	**N101**	**98**	**Entity Identifier Code**	**M**	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual BT Bill-to-Party		
	N103	**66**	**Identification Code Qualifier**	**X**	**ID 1/2**
			Code designating the system/method of code structure used for Identification Code (67) 92 Assigned by Buyer or Buyer's Agent		
	N104	**67**	**Identification Code**	**X**	**AN 2/80**
			Code identifying a party or other code ACNA (LSR-64) = Access Customer Name Abbreviation		

Segment: **PO1** **Baseline Item Data - End User Form (Location and Access Section)**
Position: 0100
Loop: PO1 Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify basic and most frequently used line item data
Syntax Notes:
1 If PO103 is present, then PO102 is required.
2 If PO105 is present, then PO104 is required.
3 If either PO106 or PO107 is present, then the other is required.
4 If either PO108 or PO109 is present, then the other is required.
5 If either PO110 or PO111 is present, then the other is required.
6 If either PO112 or PO113 is present, then the other is required.
7 If either PO114 or PO115 is present, then the other is required.
8 If either PO116 or PO117 is present, then the other is required.
9 If either PO118 or PO119 is present, then the other is required.
10 If either PO120 or PO121 is present, then the other is required.
11 If either PO122 or PO123 is present, then the other is required.
12 If either PO124 or PO125 is present, then the other is required.
Semantic Notes:
Comments:
1 See the Data Element Dictionary for a complete list of IDs.
2 PO101 is the line item identification.
3 PO106 through PO125 provide for ten different product/service IDs per each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.
Notes: PO1*n*1*EA***ZZ*EU_SA [PO1 loop may repeat]

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
PO101	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set "n" = nth assigned ID within PO1 loop	**O AN 1/20**
PO102	**330**	**Quantity Ordered** Quantity ordered 1 Always One	**X R 1/15**
PO103	**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	**O ID 2/2**
PO106	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) ZZ Mutually Defined	**X ID 2/2**
PO107	**234**	**Product/Service ID** Identifying number for a product or service "EU_SA"	**X AN 1/48**

Segment: **N1** **Name**
Position: 3500
Loop: N1 Optional
Level: Detail
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: N1*IT*NAME (EU-8)

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 IT Installation on Site	**M**	**ID 2/3**
	N102	**93**	**Name** Free-form name NAME (EU-8) = End User Name	**X**	**AN 1/60**

Segment: **N4** **Geographic Location**
Position: 3800
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes:
1 Only one of N402 or N407 may be present.
2 If N406 is present, then N405 is required.
3 If N407 is present, then N404 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: N4**STATE (EU-25)*ZIP (EU-26)**RJ*CALA (EU-26a)

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
N402	**156**	**State or Province Code** Code (Standard State/Province) as defined by appropriate government agency STATE (EU-25) = State/Province	**X**	**ID 2/2**
N403	**116**	**Postal Code** Code defining international postal zone code excluding punctuation and blanks (zip code for United States) ZIP (EU-26) = ZIP/Postal Code	**O**	**ID 3/15**
N405	**309**	**Location Qualifier** Code identifying type of location RJ Region	**X**	**ID 1/2**
N406	**310**	**Location Identifier** Code which identifies a specific location CALA (EU-26a) = Customer Address Location Area	**O**	**AN 1/30**

Segment: **NX2** **Location ID Component**
Position: 3850
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To define types and values of a geographic location
Syntax Notes:
Semantic Notes:
Comments:
Notes:
NX2*01*SANO (EU-11)
NX2*02*SASN (EU-14)
NX2*03*SASD (EU-13)
NX2*05*BOX (EU-23c)
NX2*06*ROUTE (EU-23b)
NX2*07*CITY (EU-24)
NX2*39*AHN (EU-23a)
NX2*40*SASS (EU-16)
NX2*59*SAPR (EU-10)
NX2*61*SASF (EU-12)
NX2*62*SATH (EU-15)
NX2*LD1 (EU-17)*LV1 (EU-18)
NX2*LD2 (EU-19)*LV2 (EU-20)
NX2*LD3 (EU-21)*LV3 (EU-22)

Data Element Summary

	Ref. Des. Attributes	Data Element	Name		
M	**NX201**	**1106**	**Address Component Qualifier** Code qualifying the type of address component	**M**	**ID 2/2**

LD1 (EU-17) = Location Designator 1
13 = (DWS: APT)
34 = (DWS: LOT)
35 = (DWS: RM)
36 = (DWS: SLIP)
37 = (DWS: UNIT)
14 = (DWS: SUIT)

LD2 (EU-19) = Location Designator 2
32 = (DWS: FLR)

LD3 (EU-21) = Location Designator 3
12 = (DWS: BLDG)
63 = (DWS: WNG)
30 = (DWS: PIER)

01	Street Number
02	Street Name
03	Prefix Direction
05	P.O. Box Number
06	Rural Route Number
07	City Name
12	Building Name

			13	Apartment Number		
			14	Suite Number		
			30	Pier The pier at which a ship or boat is docked		
			32	Floor A particular floor or level of a building		
			34	Lot A particular lot or piece of land		
			35	Room A walled room or partitioned area of a building		
			36	Slip The slip or location on a pier at which a ship or boat is docked		
			37	Unit A unit or separate structure		
			39	Unstructured Property		
			40	Street Suffix		
			59	Street Number Low		
			61	Street Number Fraction		
			62	Street Name Suffix		
			63	Secondary Unit Identifier		
M	**NX202**	**166**	**Address Information**		**M**	**AN 1/55**
			Address information SANO (EU-11) = Service Address Number SASN (EU-14) = Service Address Street Name SASD (EU-13) = Service Address Street Directional Prefix BOX (EU-23c) = Box ROUTE (EU-23b) = Route CITY (EU-24) = City AHN (EU-23a) = Assigned House Number SASS (EU-16) = Service Address Street Directional Suffix SAPR (EU-10) = Service Address Number Prefix SASF (EU-12) = Service Address Number Suffix SATH (EU-15) = Service Address Street Type LV1 (EU-18) = Location Value 1 LV2 (EU-20) = Location Value 2 LV3 (EU-22) = Location Value 3			

Segment: **SI** **Service Characteristic Identification**
Position: 4050
Loop: N1 Optional
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: SI*TI*AF*AFT (EU-9)

Data Element Summary

Ref. Des. Attributes	Data Element	Name		
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 AF Address Format Type	**M**	**AN 2/2**
M **SI03**	**234**	**Product/Service ID** Identifying number for a product or service AFT (EU-9) = Address Format Type	**M**	**AN 1/48**

Segment: **PO1** **Baseline Item Data - LS Form (Unbundled Loop)**
Position: 0100
Loop: PO1 Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify basic and most frequently used line item data
Syntax Notes:
1 If PO103 is present, then PO102 is required.
2 If PO105 is present, then PO104 is required.
3 If either PO106 or PO107 is present, then the other is required.
4 If either PO108 or PO109 is present, then the other is required.
5 If either PO110 or PO111 is present, then the other is required.
6 If either PO112 or PO113 is present, then the other is required.
7 If either PO114 or PO115 is present, then the other is required.
8 If either PO116 or PO117 is present, then the other is required.
9 If either PO118 or PO119 is present, then the other is required.
10 If either PO120 or PO121 is present, then the other is required.
11 If either PO122 or PO123 is present, then the other is required.
12 If either PO124 or PO125 is present, then the other is required.
Semantic Notes:
Comments:
1 See the Data Element Dictionary for a complete list of IDs.
2 PO101 is the line item identification.
3 PO106 through PO125 provide for ten different product/service IDs per each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.
Notes: PO1*n*1*EA***ZZ*LS [PO1 Loop repeats LQTY(LS-5) times]

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
PO101	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set "n" = nth assigned ID within PO1 loop	**O AN 1/20**
PO102	**330**	**Quantity Ordered** Quantity ordered 1 Always One	**X R 1/15**
PO103	**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	**O ID 2/2**
PO106	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) ZZ Mutually Defined	**X ID 2/2**
PO107	**234**	**Product/Service ID** Identifying number for a product or service "LS"	**X AN 1/48**

Segment: **SI** **Service Characteristic Identification**
Position: 0180
Loop: PO1 Mandatory
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:
SI*TI*SA*LNA (LS-9)
SI*TI*TN*LINE SHARED TN (LS-6a)
SI*TI*S2*POTSSPLITLOC (LS-27b)

Data Element Summary

	Ref. Des. Attributes	Data Element	Name		
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 S2 Co-Location Indicator SA Service Activity TN Telephone Number	**M**	**AN 2/2**
M	**SI03**	**234**	**Product/Service ID** Identifying number for a product or service LNA (LS-9) = Line Activity A= (DWS: N-New Line Sharing) D= (DWS: D-Disconnect Line Sharing) V= (DWS: V-Conversion from DLEC to DLEC) RL= (DWS: M-Move Termination within CO) LINE SHARED TN (LS-6a) = Line Shared Telephone Number POTSSPLITLOC (LS-27b) = POTS Splitter Location	**M**	**AN 1/48**

Segment: **PAM** **Period Amount**
Position: 0450
Loop: PO1 Mandatory
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To indicate a quantity, and/or amount for an identified period
Syntax Notes:
1 If any of PAM01 PAM02 or PAM03 is present, then all are required.
2 At least one of PAM02 PAM05 or PAM14 is required.
3 If either PAM04 or PAM05 is present, then the other is required.
4 If either PAM06 or PAM07 is present, then the other is required.
5 If PAM07 is present, then at least one of PAM08 or PAM09 is required.
6 If PAM07 is present, then PAM06 is required.
7 If PAM08 is present, then PAM07 is required.
8 If PAM09 is present, then PAM07 is required.
9 If PAM10 is present, then at least one of PAM11 or PAM12 is required.
10 If PAM11 is present, then PAM10 is required.
11 If either PAM13 or PAM14 is present, then the other is required.
Semantic Notes:
1 PAM10, PAM11, or PAM12 are used when two dates are required.
2 PAM15 indicates whether the monetary amount identified in PAM05 is a net or gross value. A "Y" indicates amount is a gross value; an "N" indicates amount is a net value.
Comments:
Notes: PAM*OC*CABCONNQTY (LS-27c)*EA

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
	PAM01	**673**	**Quantity Qualifier** Code specifying the type of quantity OC Order Count	**X**	**ID 2/2**
	PAM02	**380**	**Quantity** Numeric value of quantity CABCONNQTY(LS-27c) = Cable Connection Quantity	**X**	**R 1/15**
	PAM03	**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	**M**	**ID 2/2**

Segment: **REF** **Reference Identification**
Position: 1000
Loop: PO1 Mandatory
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:

REF*IX*LNUM (LS-8)*LNUM
REF*GP*TSP (LS-11)
REF*AE*SAN (LS-12)
REF*BS*POTSSPLIT (LS-27a)

Data Element Summary

	Ref. Des.	Data Element	Name		
	Attributes				
M	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification		
			AE Authorization for Expense (AFE) Number		
			BS Split Booking Number		
			GP Government Priority Number		
			IX Item 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		
			LNUM (LS-8) = Line Number TSP (LS-11) = Telecommunications Service Priority SAN (LS-12) = Subscriber Authorization Number POTSSPLIT(LS-27a) = POTS Splitter		
	REF03	**352**	**Description**	**X**	**AN 1/80**
			A free-form description to clarify the related data elements and their content		
			"LNUM"		

Segment: **SLN** **Subline Item Detail**
Position: 4700
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: SLN*CABCONN*n*A*1*EA [SLN Loop may repeat CABCONNQTY (LS-27c) times]

Data Element Summary

Ref. Des. Attributes	Data Element	Name		
M **SLN01**	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set "CABCONN"	**M**	**AN 1/20**
SLN02	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set "n" = nth assigned ID within SLN loop	**O**	**AN 1/20**
M **SLN03**	**662**	**Relationship Code** Code indicating the relationship between entities A Add	**M**	**ID 1/1**
SLN04	**380**	**Quantity**	**X**	**R 1/15**

			Numeric value of quantity 1 Always One			
	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	**M**	**ID**	**2/2**

Segment: **SI** **Service Characteristic Identification**
Position: 4800
Loop: SLN Optional
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:
SI*TI*C8*CABCONNTYP (LS-27d)
SI*TI*C9*CABCONN (LS-27e)

Data Element Summary

	Ref. Des. Attributes	Data Element	Name		
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 C8 Cable Connection Type C9 Connection point inside the co-location cage	**M**	**AN 2/2**
M	**SI03**	**234**	**Product/Service ID** Identifying number for a product or service CABCONNTYP(LS-27d) = Cable Connection Type CABCONN(LS-27e) = Cable Connection	**M**	**AN 1/48**

Segment: **PO1** **Baseline Item Data - DUMMY**
Position: 0100
Loop: PO1 Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify basic and most frequently used line item data
Syntax Notes:
1 If PO103 is present, then PO102 is required.
2 If PO105 is present, then PO104 is required.
3 If either PO106 or PO107 is present, then the other is required.
4 If either PO108 or PO109 is present, then the other is required.
5 If either PO110 or PO111 is present, then the other is required.
6 If either PO112 or PO113 is present, then the other is required.
7 If either PO114 or PO115 is present, then the other is required.
8 If either PO116 or PO117 is present, then the other is required.
9 If either PO118 or PO119 is present, then the other is required.
10 If either PO120 or PO121 is present, then the other is required.
11 If either PO122 or PO123 is present, then the other is required.
12 If either PO124 or PO125 is present, then the other is required.
Semantic Notes:
Comments:
1 See the Data Element Dictionary for a complete list of IDs.
2 PO101 is the line item identification.
3 PO106 through PO125 provide for ten different product/service IDs per each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.
Notes: PO1*DUMMY*1*EA***ZZ*DD

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
PO101	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set "DUMMY"	**O AN 1/20**
PO102	**330**	**Quantity Ordered** Quantity ordered 1 Always One	**X R 1/15**
PO103	**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	**O ID 2/2**
PO106	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) ZZ Mutually Defined	**X ID 2/2**
PO107	**234**	**Product/Service ID** Identifying number for a product or service "DD"	**X AN 1/48**

Segment: **CTT** **Transaction Totals**
Position: 0100
Loop: CTT Optional
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.
Notes: CTT*Number of PO1 Segments

Data Element Summary

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

Segment: **SE** **Transaction Set Trailer**
Position: 0300
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.
Notes: SE*Number of Segments*TRAN SET CONTROL #

Data Element Summary

Ref. Des. Attributes	Data Element	Name		
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	**M**	**AN 4/9**

40.6.2 860 Shared Loop Supplemental Service Request (860SL)

Functional Group ID=PC

Introduction:

The 860SL will be used by the Co-Provider to initiate a Shared Loop Supplemental Service Request to Qwest.

This implementation guideline references the following:
1. ANSI ASC X12 Version 4020
2. LSOG 5 and Qwest assigned fields
3. TCIF/SOSC Guidelines ELMS 5

Notes:

This 860 Transaction includes the mappings for Local Service Request, End User, and Loop Service.

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	0100	ST	Transaction Set Header	M	1		
M	0200	BCH	Beginning Segment for Purchase Order Change	M	1		
	0500	REF	Reference Identification	O	>1		
	0950	PAM	Period Amount	O	10		
			LOOP ID - SAC			25	
	1200	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
	1500	DTM	Date/Time Reference	O	10		
	1850	SI	Service Characteristic Identification	O	>1		
	1900	PID	Product/Item Description	O	200		
			LOOP ID - N9			1000	
	2850	N9	Reference Identification	O	1		
	2900	MTX	Text	O	>1		
			LOOP ID - N9			1000	
	2850	N9	Reference Identification	O	1		
	2900	MTX	Text	O	>1		
			LOOP ID - N9			1000	
	2850	N9	Reference Identification	O	1		
	2900	MTX	Text	O	>1		
			LOOP ID - N1			200	
	3000	N1	Name	O	1		
	3350	NX2	Location ID Component	O	>1		
	3500	PER	Administrative Communications Contact	O	>1		
			LOOP ID - N1			200	
	3000	N1	Name	O	1		

Detail:

Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
		LOOP ID - POC			>1	
0100	POC	Line Item Change - End User Form (Location and Access Section)	O	1		
		LOOP ID - N1			200	
3400	N1	Name	O	1		
3700	N4	Geographic Location	O	1		
3750	NX2	Location ID Component	O	>1		
3950	SI	Service Characteristic Identification	O	>1		
		LOOP ID - POC			>1	
0100	POC	Line Item Change - LS Form (Service Details Section)	O	1		
0180	SI	Service Characteristic Identification	O	>1		
0410	PAM	Period Amount	O	10		
1000	REF	Reference Identification	O	>1		
		LOOP ID - SLN			>1	
4600	SLN	Subline Item Detail	O	1		
4700	SI	Service Characteristic Identification	O	>1		

Summary:

Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
		LOOP ID - CTT			1	
0100	CTT	Transaction Totals	O	1		n1
M 0300	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. Number of line items (CTT01) is the accumulation of the number of POC segments. If used, hash total (CTT02) is the sum of the value of quantities ordered (POC03) for each POC segment.

Segment: **ST** **Transaction Set Header**
Position: 0100
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).
2 The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition.
Comments:
Notes: ST*860*TRAN SET CONTROL #

Data Element Summary

	Ref. Des.	Data Element	Name		
	Attributes				
M	**ST01**	**143**	**Transaction Set Identifier Code**	**M**	**ID 3/3**
			Code uniquely identifying a Transaction Set		
			860 Purchase Order Change Request - Buyer Initiated		
M	**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: **BCH** **Beginning Segment for Purchase Order Change**
Position: 0200
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of the Purchase Order Change Transaction Set and transmit identifying numbers and dates
Syntax Notes:
Semantic Notes:
1 BCH06 is the date assigned by the purchaser to purchase order.
2 BCH09 is the seller's order number.
3 BCH10 is the date assigned by the sender to the acknowledgment.
4 BCH11 is the date of the purchase order change request.
Comments:
Notes: BCH*SUP (LSR-25)*SS*PON (LSR-2)**VER (LSR-3)*PO Date(See Trading Partner Access Information)

Data Element Summary

	Ref. Des. Attributes	Data Element	Name		
M	**BCH01**	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set SUP (LSR-25) = Supplement Type 01 = (DWS: "1" = Cancel) 04 = (DWS: "2" = DDD - Change) 05 = (DWS: "3" = Other)	**M**	**ID 2/2**
M	**BCH02**	**92**	**Purchase Order Type Code** Code specifying the type of Purchase Order SS Supply or Service Order	**M**	**ID 2/2**
M	**BCH03**	**324**	**Purchase Order Number** Identifying number for Purchase Order assigned by the orderer/purchaser PON (LSR-2) = Purchase Order Number	**M**	**AN 1/22**
	BCH05	**327**	**Change Order Sequence Number** Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set VER (LSR-3) = Version Identification	**O**	**AN 1/8**
M	**BCH06**	**373**	**Date** Date expressed as CCYYMMDD PO Date = Purchase Order Date(See Trading Partner Access Information)	**M**	**DT 8/8**

Segment: **REF** **Reference Identification**
Position: 0500
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:
Notes:

REF*11*AN (LSR-7)*AN
REF*12*BAN1 (LSR-61)*BAN1
REF*JB*PROJECT (LSR-20)
REF*SU*RTR (LSR-28)*RTR
REF*CO*RPON (LSR-51)*RPON
REF*1V*RORD (LSR-52)*RORD

Data Element Summary

Attributes	Ref. Des.	Data Element	Name		
M	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification		
			11 Account Number Number identifies a telecommunications industry account		
			12 Billing Account Account number under which billing is rendered		
			1V Related Vendor Order Number A vendor's order number that is in addition to a primary order number		
			CO Customer Order Number		
			JB Job (Project) Number		
			SU Special Processing Code Unique code identifying the special handling requirements for the claim		
	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		
			AN (LSR-7) = Account Number BAN1 (LSR-61) = Billing Account Number 1 PROJECT (LSR-20) = Project Identification RTR (LSR-28) = Response Type Requested RPON (LSR-51) = Related Purchase Order Number RORD (LSR-52) = Related Order Number		
	REF03	**352**	**Description**	**X**	**AN 1/80**
			A free-form description to clarify the related data elements and their content		
			"AN" "BAN1" "RTR"		

"RPON"
"RORD"

Segment: **PAM** **Period Amount**
Position: 0950
Loop:
Level: Heading
Usage: Optional
Max Use: 10
Purpose: To indicate a quantity, and/or amount for an identified period
Syntax Notes:
1 If any of PAM01 PAM02 or PAM03 is present, then all are required.
2 At least one of PAM02 PAM05 or PAM14 is required.
3 If either PAM04 or PAM05 is present, then the other is required.
4 If either PAM06 or PAM07 is present, then the other is required.
5 If PAM07 is present, then at least one of PAM08 or PAM09 is required.
6 If PAM07 is present, then PAM06 is required.
7 If PAM08 is present, then PAM07 is required.
8 If PAM09 is present, then PAM07 is required.
9 If PAM10 is present, then at least one of PAM11 or PAM12 is required.
10 If PAM11 is present, then PAM10 is required.
11 If either PAM13 or PAM14 is present, then the other is required.
Semantic Notes:
1 PAM10, PAM11, or PAM12 are used when two dates are required.
2 PAM15 indicates whether the monetary amount identified in PAM05 is a net or gross value. A "Y" indicates amount is a gross value; an "N" indicates amount is a net value.
Comments:
Notes:
PAM*48*PG_of_ (LSR-10) (1st 2 Bytes)*EA
PAM*47*PG_of_ (LSR-10) (2nd 2 Bytes)*EA
PAM*63*LQTY (LS-5)*EA

Data Element Summary

	Ref. Des.	Data Element	Name		
	Attributes				
	PAM01	**673**	**Quantity Qualifier**	**X**	**ID 2/2**
			Code specifying the type of quantity		
			47 Primary Net Quantity		
			48 Secondary Net Quantity		
			63 On Order Quantity		
	PAM02	**380**	**Quantity**	**X**	**R 1/15**
			Numeric value of quantity		
			First 2 bytes of PG_of_ (LSR-10) Second 2 bytes PG_of_ (LSR-10) LQTY (LS-5) = Loop Quantity		
	PAM03	**C001**	**Composite Unit of Measure**	**X**	
			To identify a composite unit of measure (See Figures Appendix for examples of use)		
M	**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: **SAC** **Service, Promotion, Allowance, or Charge Information**
Position: 1200
Loop: SAC Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge
Syntax Notes:
1 At least one of SAC02 or SAC03 is required.
2 If either SAC03 or SAC04 is present, then the other is required.
3 If either SAC06 or SAC07 is present, then the other is required.
4 If either SAC09 or SAC10 is present, then the other is required.
5 If SAC11 is present, then SAC10 is required.
6 If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7 If SAC14 is present, then SAC13 is required.
8 If SAC16 is present, then SAC15 is required.
Semantic Notes:
1 If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2 SAC05 is the total amount for the service, promotion, allowance, or charge.
If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
3 SAC08 is the allowance or charge rate per unit.
4 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
5 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
6 SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
7 SAC16 is used to identify the language being used in SAC15.
Comments:
1 SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction with SAC03 to further define SAC02.
2 In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.
Notes: SAC*N**TI*EEH [If this segment appears then AENG (LSR-32) ="Y"]
SAC*N**TI*OAC [If this segment appears then ALBR (LSR-33) = "Y"]

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**SAC01**	**248**	**Allowance or Charge Indicator** Code which indicates an allowance or charge for the service specified	**M**	**ID 1/1**

		N	No Allowance or Charge		
SAC03	**559**	**Agency Qualifier Code** Code identifying the agency assigning the code values		**X**	**ID 2/2**
		TI	Telecommunications Industry		
SAC04	**1301**	**Agency Service, Promotion, Allowance, or Charge Code** Agency maintained code identifying the service, promotion, allowance, or charge		**X**	**AN 1/10**
		EEH	Engineering Charge		
		OAC	Overtime Loading		

Segment: **DTM** **Date/Time Reference**
Position: 1500
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:
Notes:
DTM*097*D/TSENT{CCYYMMDD} (LSR-12)*D/TSENT{HHMM} (LSR-12)
DTM*150*DDD{CCYYMMDD} (LSR-14)
DTM*270*DATED{CCYYMMDD} (LSR-36)

Data Element Summary

	Ref. Des.	Data Element	Name		
	Attributes				
M	**DTM01**	**374**	**Date/Time Qualifier**	**M**	**ID 3/3**
			Code specifying type of date or time, or both date and time		
			097 Transaction Creation		
			150 Service Period Start		
			270 Date Filed		
	DTM02	**373**	**Date**	**X**	**DT 8/8**
			Date expressed as CCYYMMDD		
			D/TSENT (LSR-12) = Date Sent DDD (LSR-14) = Desired Due Date DATED (LSR-36) = Date of Agency Authorization		
	DTM03	**337**	**Time**	**X**	**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)		
			D/TSENT{HHMM} (LSR-12) = Time Sent		

Segment: **SI** **Service Characteristic Identification**
Position: 1850
Loop:
Level: Heading
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:
SI*TI*RE*REQTYP (LSR-23)
SI*TI*AA*ACT (LSR-24)
SI*TI*TY*TOS (LSR-44)
SI*TI*NC*NC (LSR-46)
SI*TI*NI*NCI (LSR-48)
SI*TI*NJ*SEC NCI (LSR-50)

Data Element Summary

	Ref. Des. Attributes	Data Element	Name			
M	**SI01**	**559**	**Agency Qualifier Code**		**M**	**ID 2/2**
			Code identifying the agency assigning the code values			
			TI	Telecommunications Industry		
M	**SI02**	**1000**	**Service Characteristics Qualifier**		**M**	**AN 2/2**
			Code from an industry code list qualifying the type of service characteristics			
			AA	Account Activity		
			NC	Network Channel		
			NI	Network Channel Interface		
			NJ	Secondary Network Channel Interface		
			RE	Requisition Type		
			TY	Type of Service		
M	**SI03**	**234**	**Product/Service ID**		**M**	**AN 1/48**
			Identifying number for a product or service			
			ACT (LSR-24) = Activity C = (DWS: C = Change) REQTYP(LSR-23) = Requisition Type and Status TOS (LSR-44) = Type of Service NC (LSR-46) = Network Channel Code NCI (LSR-48) = Network Channel Interface Code SEC NCI (LSR-50) = Secondary Network Channel Interface Code			

Segment: **PID** **Product/Item Description**
Position: 1900
Loop:
Level: Heading
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:
PID*S**TI*AN***SO-RSQ*SCA (LSR-34)
PID*S**TI*AO***SO-RSQ*AGAUTH (LSR-35)
PID*S**TI*PENDING***SO-RSQ*PENDING ORDER (LSR-108b)

Data Element Summary

	Ref. Des. Attributes	Data Element	Name			
M	**PID01**	**349**	**Item Description Type**		**M**	**ID 1/1**
			Code indicating the format of a description			
			S	Structured (From Industry Code List)		
	PID03	**559**	**Agency Qualifier Code**		**X**	**ID 2/2**
			Code identifying the agency assigning the code values			
			TI	Telecommunications Industry		
	PID04	**751**	**Product Description Code**		**X**	**AN 1/12**
			A code from an industry code list which provides specific data about a product characteristic			
			AN	Special Construction is Authorized		
			AO	Agency Authorization Status		
			PENDING	Pending Order		
	PID07	**822**	**Source Subqualifier**		**O**	**AN 1/15**
			A reference that indicates the table or text maintained by the Source Qualifier			
			SO-RSQ	Service Order - Reseller Questions list		

PID08	**1073**	**Yes/No Condition or Response Code**	**O**	**ID 1/1**
		Code indicating a Yes or No condition or response SCA (LSR-34) = Special Construction Authorization AGAUTH (LSR-35) = Agency Authorization Status PENDING ORDER (LSR-108b) = Pending Order Indicator		

Segment: **N9** **Reference Identification**
Position: 2850
Loop: N9 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier
Syntax Notes:
1 At least one of N902 or N903 is required.
2 If N906 is present, then N905 is required.
3 If either C04003 or C04004 is present, then the other is required.
4 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 N906 reflects the time zone which the time reflects.
2 N907 contains data relating to the value cited in N902.
Comments:
Notes: N9*H7*ORI*LS****2W>MANUAL IND (LS-40a)

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
M N901	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification H7 Standard Clause	**M**	**ID 2/3**
N902	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier ORI Order Instructions	**X**	**AN 1/30**
N903	**369**	**Free-form Description** Free-form descriptive text "LS"	**X**	**AN 1/45**
N907	**C040**	**Reference Identifier** To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	**O**	
M C04001	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 2W Change Order Authority	**M**	**ID 2/3**
M C04002	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier MANUAL IND (LS-40a) = Manual Indicator	**M**	**AN 1/30**

Segment: **MTX** **Text**
Position: 2900
Loop: N9 Optional
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To specify textual data
Syntax Notes:
1 If MTX01 is present, then MTX02 is required.
2 If MTX03 is present, then MTX02 is required.
3 If MTX05 is present, then MTX04 is required.
Semantic Notes:
1 MTX05 is the number of lines to advance before printing.
Comments:
1 If MTX04 is "AA - Advance the specific number of lines before print", then MTX05 is required.
Notes: MTX**REMARKS (LS-40)

Data Element Summary

Ref. Des.	Data Element	Name		Attributes
MTX02	**1551**	**Message Text** To transmit large volumes of message text REMARKS (LS-40) = Remarks	**X**	**AN 1/4096**

Segment: **N9** **Reference Identification**
Position: 2850
Loop: N9 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier
Syntax Notes:
1 At least one of N902 or N903 is required.
2 If N906 is present, then N905 is required.
3 If either C04003 or C04004 is present, then the other is required.
4 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 N906 reflects the time zone which the time reflects.
2 N907 contains data relating to the value cited in N902.
Comments:
Notes: N9*H7*ORI*LSR****2W>MANUAL IND (LSR-108a)

Data Element Summary

Ref. Des. / Attributes	Data Element	Name		
M N901	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification H7 Standard Clause	**M**	**ID 2/3**
N902	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier ORI Order Instructions	**X**	**AN 1/30**
N903	**369**	**Free-form Description** Free-form descriptive text "LSR"	**X**	**AN 1/45**
N907	**C040**	**Reference Identifier** To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	**O**	
M C04001	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 2W Change Order Authority	**M**	**ID 2/3**
M C04002	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier MANUAL IND (LSR-108a) = Manual Indicator	**M**	**AN 1/30**

Segment: **MTX** **Text**
Position: 2900
Loop: N9 Optional
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To specify textual data
Syntax Notes:
1 If MTX01 is present, then MTX02 is required.
2 If MTX03 is present, then MTX02 is required.
3 If MTX05 is present, then MTX04 is required.
Semantic Notes:
1 MTX05 is the number of lines to advance before printing.
Comments:
1 If MTX04 is "AA - Advance the specific number of lines before print", then MTX05 is required.
Notes: MTX**REMARKS (LSR-108)

Data Element Summary

Ref. Des.	Data Element	Name		Attributes
MTX02	**1551**	**Message Text**	**X**	**AN 1/4096**
		To transmit large volumes of message text		
		REMARKS (LSR-108) = Remarks		

Segment: **N9** **Reference Identification**
Position: 2850
Loop: N9 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier
Syntax Notes:
1 At least one of N902 or N903 is required.
2 If N906 is present, then N905 is required.
3 If either C04003 or C04004 is present, then the other is required.
4 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 N906 reflects the time zone which the time reflects.
2 N907 contains data relating to the value cited in N902.
Comments:
Notes: N9*H7*ORI*EU****2W>MANUAL IND (EU-63a)

Data Element Summary

	Ref. Des. Attributes	Data Element	Name		
M	**N901**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification H7 Standard Clause	**M**	**ID 2/3**
	N902	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier ORI Order Instructions	**X**	**AN 1/30**
	N903	**369**	**Free-form Description** Free-form descriptive text "EU"	**X**	**AN 1/45**
	N907	**C040**	**Reference Identifier** To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	**O**	
M	**C04001**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 2W Change Order Authority	**M**	**ID 2/3**
M	**C04002**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier MANUAL IND (EU-63a) = Manual Indicator	**M**	**AN 1/30**

Segment: **MTX** **Text**
Position: 2900
Loop: N9 Optional
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To specify textual data
Syntax Notes:
1 If MTX01 is present, then MTX02 is required.
2 If MTX03 is present, then MTX02 is required.
3 If MTX05 is present, then MTX04 is required.
Semantic Notes:
1 MTX05 is the number of lines to advance before printing.
Comments:
1 If MTX04 is "AA - Advance the specific number of lines before print", then MTX05 is required.
Notes: MTX**REMARKS (EU-63)

Data Element Summary

Ref. Des.	Data Element	Name		Attributes
MTX02	**1551**	**Message Text** To transmit large volumes of message text REMARKS (EU-63) = Remarks	**X**	**AN 1/4096**

Segment: **N1** **Name**
Position: 3000
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: N1*78*CCNA (LSR-1)

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 78 Service Requester	**M**	**ID 2/3**
	N102	**93**	**Name** Free-form name CCNA (LSR-1) = Customer Carrier Name Abbreviation	**X**	**AN 1/60**

Segment: **NX2** **Location ID Component**
Position: 3350
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To define types and values of a geographic location
Syntax Notes:
Semantic Notes:
Comments:
Notes: NX2*90*ACTL (LSR-39)

Data Element Summary

	Ref. Des. Attributes	Data Element	Name		
M	**NX201**	**1106**	**Address Component Qualifier** Code qualifying the type of address component 90 Access Customer Terminal Location (ACTL)	**M**	**ID 2/2**
M	**NX202**	**166**	**Address Information** Address information ACTL (LSR-39) = Access Customer Terminal Location	**M**	**AN 1/55**

Segment: **PER** **Administrative Communications Contact**
Position: 3500
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax Notes: **1** If either PER03 or PER04 is present, then the other is required.
2 If either PER05 or PER06 is present, then the other is required.
3 If either PER07 or PER08 is present, then the other is required.
Semantic Notes:
Comments:
Notes: PER*AG*INIT (LSR-81)*TE*TEL NO (LSR-82)*FX*FAX NO (LSR-84)*EM*EMAIL (LSR-83)

PER*CN*IMPCON (LSR-91)*TE*TEL NO (LSR-92)*BN*PAGER (LSR-93)

Data Element Summary

	Ref. Des.	Data Element	Name		
	Attributes				
M	**PER01**	**366**	**Contact Function Code**	**M**	**ID 2/2**
			Code identifying the major duty or responsibility of the person or group named		
			AG Agent		
			CN General Contact		
	PER02	**93**	**Name**	**O**	**AN 1/60**
			Free-form name		
			INIT (LSR-81) = Initiator Identification IMPCON (LSR-91) = Implementation Contact		
	PER03	**365**	**Communication Number Qualifier**	**X**	**ID 2/2**
			Code identifying the type of communication number		
			TE Telephone		
	PER04	**364**	**Communication Number**	**X**	**AN 1/256**
			Complete communications number including country or area code when applicable		
			TEL NO (LSR-82) = Telephone Number TEL NO (LSR-92) = Telephone Number		
	PER05	**365**	**Communication Number Qualifier**	**X**	**ID 2/2**
			Code identifying the type of communication number		
			BN Beeper Number		
			FX Facsimile		
	PER06	**364**	**Communication Number**	**X**	**AN 1/256**
			Complete communications number including country or area code when applicable		
			PAGER (LSR-93) = Pager Number FAX NO (LSR-84) = Facsimile Number		
	PER07	**365**	**Communication Number Qualifier**	**X**	**ID 2/2**
			Code identifying the type of communication number		
			EM Electronic Mail		

PER08	**364**	**Communication Number**	**X**	**AN 1/256**
		Complete communications number including country or area code when applicable EMAIL (LSR-83) = Electronic Mail Address		

Segment: **N1** **Name**
Position: 3000
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: N1*BT**92*ACNA (LSR-64)

Data Element Summary

	Ref. Des.	Data Element	Name		
	Attributes				
M	**N101**	**98**	**Entity Identifier Code**	**M**	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual BT Bill-to-Party		
	N103	**66**	**Identification Code Qualifier**	**X**	**ID 1/2**
			Code designating the system/method of code structure used for Identification Code (67) 92 Assigned by Buyer or Buyer's Agent		
	N104	**67**	**Identification Code**	**X**	**AN 2/80**
			Code identifying a party or other code ACNA (LSR-64) = Access Customer Name Abbreviation		

Segment: **POC** **Line Item Change - End User Form (Location and Access Section)**
Position: 0100
Loop: POC Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify changes to a line item
Syntax Notes:
1 If POC03 is present, then both POC04 and POC05 are required.
2 If POC07 is present, then POC06 is required.
3 If either POC08 or POC09 is present, then the other is required.
4 If either POC10 or POC11 is present, then the other is required.
5 If either POC12 or POC13 is present, then the other is required.
6 If either POC14 or POC15 is present, then the other is required.
7 If either POC16 or POC17 is present, then the other is required.
8 If either POC18 or POC19 is present, then the other is required.
9 If either POC20 or POC21 is present, then the other is required.
10 If either POC22 or POC23 is present, then the other is required.
11 If either POC24 or POC25 is present, then the other is required.
12 If either POC26 or POC27 is present, then the other is required.
Semantic Notes:
1 POC01 is the purchase order line item identification.
Comments:
Notes: POC*n*RZ******ZZ*EU_SA [POC Loop may repeat]

Data Element Summary

	Ref. Des.	Data Element	Name		
	Attributes				
	POC01	**350**	**Assigned Identification**	**O**	**AN 1/20**
			Alphanumeric characters assigned for differentiation within a transaction set		
			"n" = nth assigned ID within POC loop		
M	**POC02**	**670**	**Change or Response Type Code**	**M**	**ID 2/2**
			Code specifying the type of change to the line item		
			RZ Replace All Values		
			Receiver should replace the corresponding values in the original purchase order with the values contained in the Purchase Order Change Transaction Set		
	POC08	**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		
	POC09	**234**	**Product/Service ID**	**X**	**AN 1/48**
			Identifying number for a product or service		
			"EU_SA"		

Segment: **N1** **Name**
Position: 3400
Loop: N1 Optional
Level: Detail
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: N1*IT*NAME (EU-8)

Data Element Summary

	Ref. Des. Attributes	Data Element	Name		
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual IT Installation on Site	**M**	**ID 2/3**
	N102	**93**	**Name** Free-form name NAME (EU-8) = End User Name	**X**	**AN 1/60**

Segment: **N4** **Geographic Location**
Position: 3700
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes:
1 Only one of N402 or N407 may be present.
2 If N406 is present, then N405 is required.
3 If N407 is present, then N404 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: N4**STATE (EU-25)*ZIP (EU-26)**RJ*CALA (EU-26a)

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
N402	**156**	**State or Province Code** Code (Standard State/Province) as defined by appropriate government agency STATE (EU-25) = State/Province	**X**	**ID 2/2**
N403	**116**	**Postal Code** Code defining international postal zone code excluding punctuation and blanks (zip code for United States) ZIP (EU-26) = ZIP/Postal Code	**O**	**ID 3/15**
N405	**309**	**Location Qualifier** Code identifying type of location RJ Region	**X**	**ID 1/2**
N406	**310**	**Location Identifier** Code which identifies a specific location CALA (EU-26a) = Customer Address Location Area	**O**	**AN 1/30**

Segment: **NX2** **Location ID Component**
Position: 3750
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To define types and values of a geographic location
Syntax Notes:
Semantic Notes:
Comments:
Notes:

NX2*01*SANO (EU-11)
NX2*02*SASN (EU-14)
NX2*03*SASD (EU-13)
NX2*05*BOX (EU-23c)
NX2*06*ROUTE (EU-23b)
NX2*07*CITY (EU-24)
NX2*39*AHN (EU-23a)
NX2*40*SASS (EU-16)
NX2*59*SAPR (EU-10)
NX2*61*SASF (EU-12)
NX2*62*SATH (EU-15)
NX2*LD1 (EU-17)*LV1 (EU-18)
NX2*LD2 (EU-19)*LV2 (EU-20)
NX2*LD3 (EU-21)*LV3 (EU-22)

Data Element Summary

	Ref. Des. Attributes	Data Element	Name		
M	**NX201**	**1106**	**Address Component Qualifier** Code qualifying the type of address component	**M**	**ID 2/2**

LD1 (EU-17) = Location Designator 1
13 = (DWS: APT)
34 = (DWS: LOT)
35 = (DWS: RM)
36 = (DWS: SLIP)
37 = (DWS: UNIT)
14 = (DWS: SUIT)

LD2 (EU-19) = Location Designator 2
32 = (DWS: FLR)

LD3 (EU-21) = Location Designator 3
12 = (DWS: BLDG)
63 = (DWS: WNG)
30 = (DWS: PIER)

01	Street Number
02	Street Name
03	Prefix Direction
05	P.O. Box Number
06	Rural Route Number
07	City Name
12	Building Name

			13	Apartment Number		
			14	Suite Number		
			30	Pier The pier at which a ship or boat is docked		
			32	Floor A particular floor or level of a building		
			34	Lot A particular lot or piece of land		
			35	Room A walled room or partitioned area of a building		
			36	Slip The slip or location on a pier at which a ship or boat is docked		
			37	Unit A unit or separate structure		
			39	Unstructured Property		
			40	Street Suffix		
			59	Street Number Low		
			61	Street Number Fraction		
			62	Street Name Suffix		
			63	Secondary Unit Identifier		
M	**NX202**	**166**	**Address Information**		**M**	**AN 1/55**
			Address information SANO (EU-11) = Service Address Number SASN (EU-14) = Service Address Street Name SASD (EU-13) = Service Address Street Directional Prefix BOX (EU-23c) = Box ROUTE (EU-23b) = Route CITY (EU-24) = City AHN (EU-23a) = Assigned House Number SASS (EU-16) = Service Address Street Directional Suffix SAPR (EU-10) = Service Address Number Prefix SASF (EU-12) = Service Address Number Suffix SATH (EU-15) = Service Address Street Type LV1 (EU-18) = Location Value 1 LV2 (EU-20) = Location Value 2 LV3 (EU-22) = Location Value 3			

Segment: **SI** **Service Characteristic Identification**
Position: 3950
Loop: N1 Optional
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: SI*TI*AF*AFT (EU-9)

Data Element Summary

	Ref. Des. Attributes	Data Element	Name		
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 AF Address Format Type	**M**	**AN 2/2**
M	**SI03**	**234**	**Product/Service ID** Identifying number for a product or service AFT (EU-9) = Address Format Type	**M**	**AN 1/48**

Segment: **POC** **Line Item Change - LS Form (Service Details Section)**
Position: 0100
Loop: POC Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify changes to a line item
Syntax Notes:
1 If POC03 is present, then both POC04 and POC05 are required.
2 If POC07 is present, then POC06 is required.
3 If either POC08 or POC09 is present, then the other is required.
4 If either POC10 or POC11 is present, then the other is required.
5 If either POC12 or POC13 is present, then the other is required.
6 If either POC14 or POC15 is present, then the other is required.
7 If either POC16 or POC17 is present, then the other is required.
8 If either POC18 or POC19 is present, then the other is required.
9 If either POC20 or POC21 is present, then the other is required.
10 If either POC22 or POC23 is present, then the other is required.
11 If either POC24 or POC25 is present, then the other is required.
12 If either POC26 or POC27 is present, then the other is required.
Semantic Notes:
1 POC01 is the purchase order line item identification.
Comments:
Notes: POC*n*RZ******ZZ*LS [POC Loop repeats LQTY (LS-5) times]

Data Element Summary

	Ref. Des. Attributes	Data Element	Name		
	POC01	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set "n" = nth assigned ID within POC loop	**O**	**AN 1/20**
M	**POC02**	**670**	**Change or Response Type Code** Code specifying the type of change to the line item RZ Replace All Values Receiver should replace the corresponding values in the original purchase order with the values contained in the Purchase Order Change Transaction Set	**M**	**ID 2/2**
	POC08	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) ZZ Mutually Defined	**X**	**ID 2/2**
	POC09	**234**	**Product/Service ID** Identifying number for a product or service "LS"	**X**	**AN 1/48**

Segment: **SI** **Service Characteristic Identification**
Position: 0180
Loop: POC Optional
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:
SI*TI*SA*LNA (LS-9)
SI*TI*TN*LINE SHARED TN (LS-6a)
SI*TI*S2*POTSSPLITLOC (LS-27b)

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
M **SI01**	**559**	**Agency Qualifier Code** Code identifying the agency assigning the code values TI Telecommunications Industry	**M**	**ID 2/2**
M **SI02**	**1000**	**Service Characteristics Qualifier** Code from an industry code list qualifying the type of service characteristics S2 Co-Location Indicator SA Service Activity TN Telephone Number	**M**	**AN 2/2**
M **SI03**	**234**	**Product/Service ID** Identifying number for a product or service LNA (LS-9) = Line Activity A= (DWS: N-New Line Sharing) D= (DWS: D-Disconnect Line Sharing) V= (DWS: V-Conversion from DLEC to DLEC) RL= (DWS: M-Move Termination within CO) LINE SHARED TN (LS-6a) = Line Shared Telephone Number POTSSPLITLOC (LS-27b) = POTS Splitter Location	**M**	**AN 1/48**

Segment: **PAM** **Period Amount**
Position: 0410
Loop: POC Optional
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To indicate a quantity, and/or amount for an identified period
Syntax Notes:
1 If any of PAM01 PAM02 or PAM03 is present, then all are required.
2 At least one of PAM02 PAM05 or PAM14 is required.
3 If either PAM04 or PAM05 is present, then the other is required.
4 If either PAM06 or PAM07 is present, then the other is required.
5 If PAM07 is present, then at least one of PAM08 or PAM09 is required.
6 If PAM07 is present, then PAM06 is required.
7 If PAM08 is present, then PAM07 is required.
8 If PAM09 is present, then PAM07 is required.
9 If PAM10 is present, then at least one of PAM11 or PAM12 is required.
10 If PAM11 is present, then PAM10 is required.
11 If either PAM13 or PAM14 is present, then the other is required.
Semantic Notes:
1 PAM10, PAM11, or PAM12 are used when two dates are required.
2 PAM15 indicates whether the monetary amount identified in PAM05 is a net or gross value. A "Y" indicates amount is a gross value; an "N" indicates amount is a net value.
Comments:
Notes: PAM*OC*CABCONNQTY (LS-27c)*EA

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
	PAM01	**673**	**Quantity Qualifier** Code specifying the type of quantity OC Order Count	**X**	**ID 2/2**
	PAM02	**380**	**Quantity** Numeric value of quantity CABCONNQTY(LS-27c) = Cable Connection Quantity	**X**	**R 1/15**
	PAM03	**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	**M**	**ID 2/2**

Segment: **REF** **Reference Identification**
Position: 1000
Loop: POC 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:

REF*IX*LNUM (LS-8)*LNUM
REF*GP*TSP (LS-11)
REF*AE*SAN (LS-12)
REF*BS*POTSSPLIT (LS-27a)

Data Element Summary

	Ref. Des.	Data Element	Name		
	Attributes				
M	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification		
			AE Authorization for Expense (AFE) Number		
			BS Split Booking Number		
			GP Government Priority Number		
			IX Item 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		
			LNUM (LS-8) = Line Number TSP (LS-11) = Telecommunications Service Priority SAN (LS-12) = Subscriber Authorization Number POTSSPLIT(LS-27a) = POTS Splitter		
	REF03	**352**	**Description**	**X**	**AN 1/80**
			A free-form description to clarify the related data elements and their content		
			"LNUM"		

Segment: **SLN** **Subline Item Detail**
Position: 4600
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: SLN*CABCONN*n*A*1*EA [SLN Loop may repeat CABCONNQTY (LS-27c) times]

Data Element Summary

Ref. Des. Attributes	Data Element	Name		
M **SLN01**	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set "CABCONN"	**M**	**AN 1/20**
SLN02	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set "n" = nth assigned ID within SLN loop	**O**	**AN 1/20**
M **SLN03**	**662**	**Relationship Code** Code indicating the relationship between entities A Add	**M**	**ID 1/1**
SLN04	**380**	**Quantity**	**X**	**R 1/15**

			Numeric value of quantity 1 Always One			
	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	**M**	**ID**	**2/2**

Segment: **SI** **Service Characteristic Identification**
Position: 4700
Loop: SLN Optional
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:
SI*TI*C8*CABCONNTYP (LS-27d)
SI*TI*C9*CABCONN (LS-27e)

Data Element Summary

	Ref. Des.	Data Element	Name		
	Attributes				
M	**SI01**	**559**	**Agency Qualifier Code**	**M**	**ID 2/2**
			Code identifying the agency assigning the code values		
			TI Telecommunications Industry		
M	**SI02**	**1000**	**Service Characteristics Qualifier**	**M**	**AN 2/2**
			Code from an industry code list qualifying the type of service characteristics		
			C8 Cable Connection Type		
			C9 Connection point inside the co-location cage		
M	**SI03**	**234**	**Product/Service ID**	**M**	**AN 1/48**
			Identifying number for a product or service		
			CABCONNTYP(LS-27d) = Cable Connection Type CABCONN(LS-27e) = Cable Connection		

Segment: **CTT** **Transaction Totals**
Position: 0100
Loop: CTT Optional
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.
Notes: CTT*Number of POC Segments

Data Element Summary

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

Segment: **SE** **Transaction Set Trailer**
Position: 0300
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.
Notes: SE*Number of Segments*TRAN SET CONTROL #

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
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	**M**	**AN 4/9**