Loop Qualification
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14. LOOP QUALIFICATION

14.1 Business Description

Loop Qualification Queries (LQQ) act to compile and filter loop network data for specific wholesale products. These qualification tools automatically analyze many pieces of technical network data and synthesize the data into a single simplified product-specific informational report for CLECs. The report indicates if facilities exist for the requested product, and the number of "lines", in terms of the product Facility Check.

The purpose of qualifying a loop is to determine if telecommunication facilities currently exist, if new facilities are required, if existing facilities can be reused or if existing facilities qualify to fulfill the end-user's request.

Facility Availability/ Loop Qualification should be checked when:

- a request for a new service (such as a new line) is received
- a request to add a line to an existing customer is received
- a request for an outside move is received

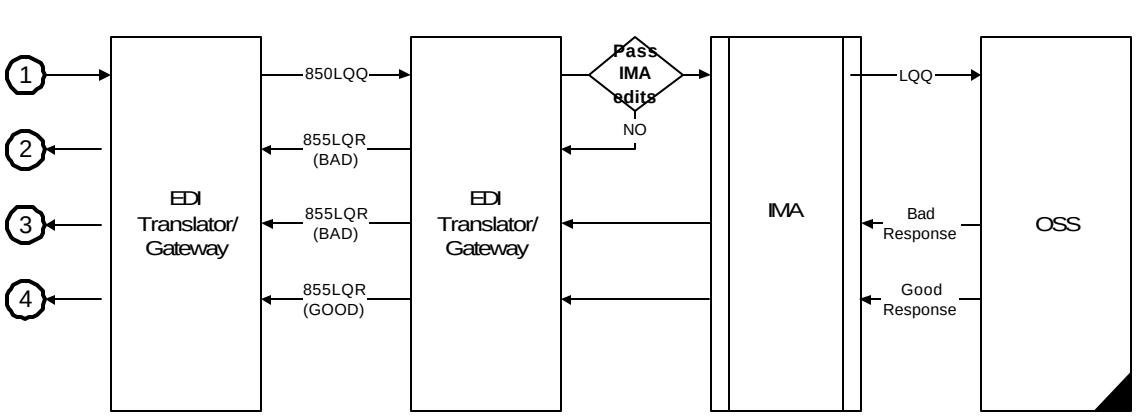
Facility Availability/Loop Qualification query does not reserve facilities nor does it guarantee that they will be available at the time a request for service is processed by the Service Center Representative. Loop Qualification information is reloaded/refreshed on a 20 day cycle.

14.2 Business Model

Loop Qualification

Loop Qualification provides Co-Provider the ability to query for loop qualification and receive loop qualification data compliant with LSOG5.

Loop Qualification



1. Co-Provider submits an 850LQQ.

2. If the 850LQQ fails the IMA edits, an 855LQR (BAD) will be returned.

   If the 850LQQ passes the IMA edits, the query will be sent to the Operations Support System (OSS). This system will respond with one of two conditions: BAD or GOOD.

3. 855LQR (BAD) will be returned when the 850LQQ encounters an error(s) with the OSS.

4. An 855LQR (GOOD) will be returned when information regarding the loop qualification queried is retrieved.

14.3 Developer Worksheets

See Appendix A - Developer Worksheets - PreOrder

14.4 Trading Partner Access Information

PRE-ORDER FUNCTION	PRODUCT ID
Loop Qualification Query	850LQQ
Loop Qualification Response	855LQR

14.4.1 OVERVIEW: Qwest Specific Functional Group Envelope - Routing Information

Separate maps have been created per pre-ordering functions. EDI envelopes are used to initiate 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.

14.4.2 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*	***'QWESTP'*** *(Note: This Trading partner ID is used only for Pre-order QWEST transactions. The "P" is the unique identifier.)*
ISA07	***'ZZ'*** *(Mutually Defined)*	*Co-Provider TP qualifier*
ISA08	***'QWESTP'*** *(Note: This Trading partner ID is used only for Pre-order QWEST transactions. The "P" 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)*

14.4.3 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:

PRE ORDERING FUNCTION	**Qwest SEND/ RECEIVE**	**DOCUMENT**	**GS01 VALUE**	**GS02 VALUE**	**GS03 VALUE**
Loop Qualification Query	Receive	850LQQ	PO	*Co-provider TP ID*	**LQ90**
Loop Qualification Response	Send	855LQR	PR	**LQ90**	*Co-provider TP ID*

14.4.4 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

14.5 Mapping Examples

14.5.1 Loop Qualification Query (850LQQ) – Version 4020

Legend of Symbols in this transaction example

Symbol/Definition	Example
{ } = Valid Format	{CCYYMMDD}
Bold/Italics = Developer's Worksheet Element	***TXNUM***
Superscript = Developer's Worksheet Ref # DWS used in this mapping example: LQQ = Loop Qualification Query LQR = Loop Qualification Response	LQQ-1
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*28*IN***TXNUM**LQQ-2**PO Date (See Trading Partner Access Information)
DTM*097***D/TSENT**{CCYYMMDD}LQQ-3***D/TSENT**{HHMM}LQQ-3
SI*TI*IR***TXACT**LQQ-5*IQ***TXTYP**LQQ-4*MK***MS**LQQ-8*TY***TOS**LQQ-9
SI*TI*NC***NC**LQQ-10*NI***NCI**LQQ-11
PID*S**TI*QRYIND***TNADDRCKTIND**LQQ-7
N1*78***CCNA**LQQ-1
N1*BY**25***CC**LQQ-6

ADDRESS QUERY SECTION

PO1*n*1*EA***ZZ**ADDRQ* [PO1 Loop will be used if ***TNADDRCKTIND***LQQ-7= 'A']
N1*IT**ADDRESS*
N4****STATE***LQQ-37***ZIP***LQQ-38**RJ***CALA***LQQ-39
NX2*01***SANO**LQQ-21
NX2*02***SASN**LQQ-24
NX2*03***SASD**LQQ-23
NX2*05***BOX**LQQ-29
NX2*06***ROUTE**LQQ-28
NX2*07***CITY**LQQ-36
NX2*39***AHN**LQQ-27
NX2*40***SASS**LQQ-26
NX2*59***SAPR**LQQ-20
NX2*61***SASF**LQQ-22
NX2*62***SATH**LQQ-25
NX2****LD1***LQQ-30****LV1***LQQ-31
NX2****LD2***LQQ-32****LV2***LQQ-33

NX2*__***LD3***__[LQQ-34]***LV3***[LQQ-35]
SI*TI*AF****AFT***[LQQ-19]

WTN QUERY SECTION

PO1*n*1*EA***ZZ**WTNQ* [PO1 Loop will be used if ***TNADDRCKTIND***[LQQ-7]= 'T']
SI*TI*WT****WTN***[LQQ-40]
N1*IT**ADDRESS*
N4*****ZIP***[LQQ-41]**RJ****CALA***[LQQ-42]

UNBUNDLED ADSL LOOP SECTION

PO1*n*1*EA***ZZ**ADSL* [PO1 Loop will be used for Unbundled ADSL only]
SI*TI*SV****DSLSERV***[LQQ-18]
PID*S**TI*QUALEXIST***SO-RSQ****QUALEXIST***[LQQ-17]
QTY*16****QLR***[LQQ-16]*EA

CTT*Number of PO1 Segments
SE*No of Segments*TRAN SET CONTROL #

14.5.2 855 Loop Qualification Response (855LQR) – Version 4020

ST*855*TRAN SET CONTROL #
BAK*11*AT*__TXNUM__[LQR-2]*PO Date (See Trading Partner Access Information)
REF*ACC*__RESPONSE__[LQR-6]*_RESPONSE_
PAM*02*__ECCKTQ__[LQR-25]*EA
DTM*097*__D/TSENT__{CCYYMMDD}[LQR-3]*__D/TSENT__{HHMM}[LQR-3]
SI*TI*IR*__TXACT__[LQR-5]*IQ*__TXTYP__[LQR-4]
N1*78*__CCNA__[LQR-1]
N1*BY**25*__CC__[LQR-7]

BAD

PO1*n*1*EA***ZZ*_BAD_ [PO1 Loop will be used if __RESPONSE__[LQR-6] = 'B']
QTY*03*__ERRNUM__[LQR-61]*EA
N9*1Q*__ERRCODE__[LQR-62]*_ERR_ [N9 Loop repeats __ERRNUM__[LQR-61] times]
MTX**__ERRMESG__[LQR-63]

ADDRESS RESPONSE SECTION

PO1*n*1*EA***ZZ*_ADDRESS_ [PO1 Loop will be used if __RESPONSE__[LQR-6] = 'G']
N1*IT*_ADDRESS_
N4**__STATE__[LQR-23]*__ZIP__[LQR-24]
NX2*01*__SANO__[LQR-10]
NX2*02*__SASN__[LQR-13]
NX2*03*__SASD__[LQR-12]
NX2*07*__CITY__[LQR-22]
NX2*40*__SASS__[LQR-15]
NX2*59*__SAPR__[LQR-9]
NX2*61*__SASF__[LQR-11]
NX2*62*__SATH__[LQR-14]
NX2*__LD1__[LQR-16]*__LV1__[LQR-17]
NX2*__LD2__[LQR-18]*__LV2__[LQR-19]
NX2*__LD3__[LQR-20]*__LV3__[LQR-21]

CIRCUIT INFORMATION SECTION

PO1*n*1*EA***ZZ*_ECCKT_ [PO1 Loop will be used if __RESPONSE__[LQR-6] = 'G' and repeats __ECCKTQ__[LQR-25] times]
SLN*_ECCKT_*n*A*1*EA
SI*TI*CN*__ECCKT__[LQR-29]
SI*TI*LX*__NPANXX__[LQR-27]
SI*TI*WT*__WTN__[LQR-28]
QTY*02*__ECCKTNUM__[LQR-26]*EA

LOOP QUALIFICATION RESPONSE SECTION

PO1*n*1*EA***ZZ*_LOOPQUAL_ [PO1 Loop will be used if __RESPONSE__[LQR-6] = 'G' and for Unbundled ADSL or Qwest DSL query and repeats __ECCKTQ__[LQR-25] times]
SLN*_LOOPQUAL_*n*A*1*EA
MTX**__LOOPQUALMESG__[LQR-31]
SI*TI*L2*__LOOPSTAT__[LQR-30]
PID*X**TI*LPAC*__LPAC__[LQR-32]

LOOP LEVEL DATA RESPONSE SECTION

PO1*n*1*EA***ZZ**LOOPLVLDATA* [PO1 Loop will be used if ***RESPONSE***[LQR-6] = 'G' and ***LPAC***[LQR-32] = 'QDSL' or Blank and repeats ***ECCKTQ***[LQR-25] times]

SI*TI*LO****LST***[LQR-36]
SI*TI*M7****F1LPCP***[LQR-59]
SI*TI*M0****F2LPCP***[LQR-60]
MEA*AF*LN****LL***[LQR-46]:length*TL/DK*****LLT***[LQR-45]
MEA*RN*GG****LLG***[LQR-48]:length*TL/DK>>>GZ>GAUGE [MEA Segement repeats ***LLGQ***[LQR-47] times]

MEA*EL*LN****ELL***[LQR-40]:length*TL/DK***31
PID*X**TI*AI****PGPRES***[LQR-37]
PID*S**TI*RSUIND***SO-RSQ****RSUIND***[LQR-44]
PID*X**TI*LCT****LCT***[LQR-50] [PID Segment repeats ***LCQ***[LQR-49] times]
QTY*TO****LCQ***[LQR-49]*EA
SI*TI*QT**LCQ*
QTY*TO****BTQ***[LQR-52]*EA
SI*TI*QT**BTQ*
QTY*TO****LLGQ***[LQR-47]*EA
SI*TI*QT**LLGQ*

CTT*Number of PO1 Segments
SE*No of Segments*TRAN SET CONTROL #

14.6 Data Dictionary

14.6.1 850 Loop Qualification Query (850LQQ)

Functional Group ID=PO

Introduction:

The 850LQQ will be used by the Co-Provider to initiate a Loop Qualification Query to Qwest.

This implementation guideline is based on the following:
ANSI ASC X12 Version 4020

Notes:

This 850 Transaction includes the mapping for Loop Qualification Query.

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		
	1500	DTM	Date/Time Reference	O	10		
	1850	SI	Service Characteristic Identification	O	>1		
	1900	PID	Product/Item Description	O	200		
			LOOP ID - N1			200	
	3100	N1	Name	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 - Address Query 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 - WTN Query Section	M	1		n2
	0180	SI	Service Characteristic Identification	O	>1		
			LOOP ID - N1			200	
	3500	N1	Name	O	1		
	3800	N4	Geographic Location	O	1		
			LOOP ID - PO1			100000	
M	0100	PO1	Baseline Item Data - Unbundled ADSL Loop Section	M	1		n3
	0180	SI	Service Characteristic Identification	O	>1		
			LOOP ID - PID			1000	
	0500	PID	Product/Item Description	O	1		
			LOOP ID - QTY			>1	
	2930	QTY	Quantity	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		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*28*IN*TXNUM (LQQ-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 28 Query	**M**	**ID 2/2**
M	**BEG02**	**92**	**Purchase Order Type Code** Code specifying the type of Purchase Order IN Information Copy	**M**	**ID 2/2**
M	**BEG03**	**324**	**Purchase Order Number** Identifying number for Purchase Order assigned by the orderer/purchaser TXNUM (LQQ-2) = Transaction 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: **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}(LQQ-3)*D/TSENT{HHMM}(LQQ-3)

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	**M**	**ID 3/3**
	DTM02	**373**	**Date** Date expressed as CCYYMMDD D/TSENT (LQQ-3) = Date Sent	**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}(LQQ-3) = 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*IR*TXACT (LQQ-5)*IQ*TXTYP (LQQ-4)*MK*MS (LQQ-8)*TY*TOS (LQQ-9)
SI*TI*NC*NC (LQQ-10)*NI*NCI (LQQ-11)

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 IR Transaction Activity NC Network Channel	**M**	**AN 2/2**
M	**SI03**	**234**	**Product/Service ID** Identifying number for a product or service TXACT (LQQ-5) = Transaction Activity NC (LQQ-10) = Network Channel Code	**M**	**AN 1/48**
	SI04	**1000**	**Service Characteristics Qualifier** Code from an industry code list qualifying the type of service characteristics IQ Inquiry Type NI Network Channel Interface	**X**	**AN 2/2**
	SI05	**234**	**Product/Service ID** Identifying number for a product or service TXTYP (LQQ-4) = Transaction Type NCI (LQQ-11) = Network Channel Interface Code	**X**	**AN 1/48**
	SI06	**1000**	**Service Characteristics Qualifier** Code from an industry code list qualifying the type of service characteristics MK Market Segment	**X**	**AN 2/2**

SI07	**234**	**Product/Service ID** Identifying number for a product or service MS (LQQ-8) = Market Segment	**X**	**AN 1/48**
SI08	**1000**	**Service Characteristics Qualifier** Code from an industry code list qualifying the type of service characteristics TY Type of Service	**X**	**AN 2/2**
SI09	**234**	**Product/Service ID** Identifying number for a product or service TOS (LQQ-9) = Type of Service	**X**	**AN 1/48**

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*QRYIND*TNADDRCKTIND (LQQ-7)

Data Element Summary

	Ref. Des. Attributes	Data Element	Name		
M	**PID01**	**349**	**Item Description Type** Code indicating the format of a description S Structured (From Industry Code List)	**M**	**ID 1/1**
	PID03	**559**	**Agency Qualifier Code** Code identifying the agency assigning the code values TI Telecommunications Industry	**X**	**ID 2/2**
	PID04	**751**	**Product Description Code** A code from an industry code list which provides specific data about a product characteristic QRYIND Query Indicator	**X**	**AN 1/12**
	PID05	**352**	**Description** A free-form description to clarify the related data elements and their content TNADDRCKTIND (LQQ-7) = Telephone Number Address Circuit Indicator	**X**	**AN 1/80**

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 (LQQ-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 (LQQ-1) = Customer Carrier Name Abbreviation	**X**	**AN 1/60**

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*BY**25*CC (LQQ-6)

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 BY Buying Party (Purchaser)	**M**	**ID 2/3**
	N103	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) 25 Carrier's Customer Code	**X**	**ID 1/2**
	N104	**67**	**Identification Code** Code identifying a party or other code CC (LQQ-6) = Company Code	**X**	**AN 2/80**

Segment: **PO1** **Baseline Item Data - Address Query 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*ADDRQ [PO1 Loop will be used if TNADDRCKTIND (LQQ-7) = 'A']

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 "ADDRQ"	**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*ADDRESS

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 "ADDRESS"	**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 (LQQ-37)*ZIP (LQQ-38)**RJ*CALA (LQQ-39)

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 (LQQ-37) = 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 (LQQ-38) = 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 (LQQ-39) = 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 (LQQ-21)
NX2*02*SASN (LQQ-24)
NX2*03*SASD (LQQ-23)
NX2*05*BOX (LQQ-29)
NX2*06*ROUTE (LQQ-28)
NX2*07*CITY (LQQ-36)
NX2*39*AHN (LQQ-27)
NX2*40*SASS (LQQ-26)
NX2*59*SAPR (LQQ-20)
NX2*61*SASF (LQQ-22)
NX2*62*SATH (LQQ-25)
NX2*LD1 (LQQ-30)*LV1 (LQQ-31)
NX2*LD2 (LQQ-32)*LV2 (LQQ-33)
NX2*LD3 (LQQ-34)*LV3 (LQQ-35)

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 (LQQ-30) = Location Designator 1
13=(DWS : APT)
34=(DWS : LOT)
35=(DWS : RM)
36=(DWS : SLIP)
37=(DWS : UNIT)
14=(DWS : SUIT)

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

LD3 (LQQ-34) = 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 (LQQ-21) = Service Address Number SASN (LQQ-24) = Service Address Street Name SASD (LQQ-23) = Service Address Street Directional Prefix BOX (LQQ-29) = Box Number ROUTE (LQQ-28) = Rural Route CITY (LQQ-36) = City AHN (LQQ-27) = Assigned House Number SASS (LQQ-26) = Service Address Street Directional Suffix SAPR (LQQ-20) = Service Address Number Prefix SASF (LQQ-22) = Service Address Number Suffix SATH (LQQ-25) = Service Address Street Type LV1 (LQQ-31) = Location Value 1 LV2 (LQQ-33) = Location Value 2 LV3 (LQQ-35) = 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 (LQQ-19)

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 AF Address Format Type	**M**	**AN 2/2**
M	**SI03**	**234**	**Product/Service ID** Identifying number for a product or service AFT (LQQ-19) = Address Format Type	**M**	**AN 1/48**

Segment: **PO1** **Baseline Item Data - WTN Query 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*WTNQ [PO1 Loop will be used if TNADDRCKTIND (LQQ-7) = 'T']

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 "WTNQ"	**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*WT*WTN (LQQ-40)

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 WT Working Telephone Number	**M**	**AN 2/2**
M **SI03**	**234**	**Product/Service ID** Identifying number for a product or service WTN (LQQ-40) = Working Telephone Number	**M**	**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*ADDRESS

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 "ADDRESS"	**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***ZIP (LQQ-41)**RJ*CALA (LQQ-42)

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
N403	**116**	**Postal Code** Code defining international postal zone code excluding punctuation and blanks (zip code for United States) ZIP (LQQ-41) = 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 (LQQ-42) = Customer Address Location Area	**O**	**AN 1/30**

Segment: **PO1** **Baseline Item Data - Unbundled ADSL Loop 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*ADSL [PO1 Loop will be used for Unbundled ADSL Only]

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 "ADSL"	**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*SV*DSLSERV (LQQ-18)

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 SV Service Configuration	**M**	**AN 2/2**
M	**SI03**	**234**	**Product/Service ID** Identifying number for a product or service DSLSERV (LQQ-18) = DSL Service	**M**	**AN 1/48**

Segment: **PID** **Product/Item Description**
Position: 0500
Loop: PID Optional
Level: Detail
Usage: Optional
Max Use: 1
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*QUALEXIST***SO-RSQ*QUALEXIST (LQQ-17)

Data Element Summary

	Ref. Des. Attributes	Data Element	Name		
M	**PID01**	**349**	**Item Description Type** Code indicating the format of a description S Structured (From Industry Code List)	**M**	**ID 1/1**
	PID03	**559**	**Agency Qualifier Code** Code identifying the agency assigning the code values TI Telecommunications Industry	**X**	**ID 2/2**
	PID04	**751**	**Product Description Code** A code from an industry code list which provides specific data about a product characteristic QUALEXIST Qualify Existing	**X**	**AN 1/12**
	PID07	**822**	**Source Subqualifier** A reference that indicates the table or text maintained by the Source Qualifier SO-RSQ Service Order - Reseller Questions list	**O**	**AN 1/15**
	PID08	**1073**	**Yes/No Condition or Response Code** Code indicating a Yes or No condition or response QUALEXIST (LQQ-17) = Qualify Existing	**O**	**ID 1/1**

Segment: **QTY** **Quantity**
Position: 2930
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify quantity information
Syntax Notes: **1** At least one of QTY02 or QTY04 is required.
2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: **1** QTY04 is used when the quantity is non-numeric.
Comments:
Notes: QTY*16*QLR (LQQ-16)*EA

Data Element Summary

	Ref. Des.	Data Element	Name		
	Attributes				
M	**QTY01**	**673**	**Quantity Qualifier**	**M**	**ID 2/2**
			Code specifying the type of quantity 16 Line Thread Quantity		
	QTY02	**380**	**Quantity**	**X**	**R 1/15**
			Numeric value of quantity QLR (LQQ-16) = Quantity of Lines Requested		
	QTY03	**C001**	**Composite Unit of Measure**	**O**	
			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: **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**	**M**	**N0 1/10**
		Total number of segments included in a transaction set including ST and SE segments		
M **SE02**	**329**	**Transaction Set Control Number**	**M**	**AN 4/9**
		Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		

14.6.2 855 Loop Qualification Response (855LQR)

Functional Group ID=PR

Introduction:

The 855LQR will be used by Qwest to respond to a Loop Qualification Query from a Co-Provider.

This implementation guideline is based on the following:
ANSI ASC X12 Version 4020

Notes:

This 855 Transaction includes the mapping for Loop Qualification Response.

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	BAK	Beginning Segment for Purchase Order Acknowledgment	M	1		
	0500	REF	Reference Identification	O	>1		
	0950	PAM	Period Amount	O	10		
	1500	DTM	Date/Time Reference	O	10		
	1850	SI	Service Characteristic Identification	O	>1		
			LOOP ID - N1			200	
	3000	N1	Name	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 - PO1			100000	
	0100	PO1	Baseline Item Data - Bad	O	1		n1
			LOOP ID - QTY			>1	
	3000	QTY	Quantity	O	1		
			LOOP ID - N9			1000	
	3500	N9	Reference Identification	O	1		
	3600	MTX	Text	O	>1		
			LOOP ID - PO1			100000	
	0100	PO1	Baseline Item Data - Address Response Section	O	1		n2
			LOOP ID - N1			200	

3700	N1	Name	O	1		
4000	N4	Geographic Location	O	1		
4050	NX2	Location ID Component	O	>1		
		LOOP ID - PO1			100000	
0100	PO1	Baseline Item Data - Circuit Information Section	O	1		n3
		LOOP ID - SLN			>1	
4900	SLN	Subline Item Detail	O	1		
5000	SI	Service Characteristic Identification	O	>1		
		LOOP ID - QTY			>1	
5590	QTY	Quantity	O	1		
		LOOP ID - PO1			100000	
0100	PO1	Baseline Item Data - Loop Qualification Response Section	O	1		n4
		LOOP ID - SLN			>1	
4900	SLN	Subline Item Detail	O	1		
4950	MTX	Text	O	>1		
5000	SI	Service Characteristic Identification	O	>1		
5100	PID	Product/Item Description	O	1000		
		LOOP ID - PO1			100000	
0100	PO1	Baseline Item Data - Loop Level Data Response Section	O	1		n5
0180	SI	Service Characteristic Identification	O	>1		
0490	MEA	Measurements	O	40		
		LOOP ID - PID			1000	
0500	PID	Product/Item Description	O	1		
		LOOP ID - QTY			>1	
3000	QTY	Quantity	O	1		
3020	SI	Service Characteristic Identification	O	>1		
		LOOP ID - QTY			>1	
3000	QTY	Quantity	O	1		
3020	SI	Service Characteristic Identification	O	>1		
		LOOP ID - QTY			>1	
3000	QTY	Quantity	O	1		
3020	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		n6
M	0300	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. PO102 is required.

2. PO102 is required.
3. PO102 is required.
4. PO102 is required.
5. PO102 is required.
6. 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*855*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 855 Purchase Order Acknowledgment	**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: **BAK** **Beginning Segment for Purchase Order Acknowledgment**
Position: 0200
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of the Purchase Order Acknowledgment Transaction Set and transmit identifying numbers and dates
Syntax Notes:
Semantic Notes:
1 BAK04 is the date assigned by the purchaser to purchase order.
2 BAK08 is the seller's order number.
3 BAK09 is the date assigned by the sender to the acknowledgment.
Comments:
Notes: BAK*11*AT*TXNUM (LQR-2)*PO Date (See Trading Partner Access Information)

Data Element Summary

	Ref. Des. Attributes	Data Element	Name		
M	**BAK01**	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set 11 Response	**M**	**ID 2/2**
M	**BAK02**	**587**	**Acknowledgment Type** Code specifying the type of acknowledgment AT Accepted	**M**	**ID 2/2**
M	**BAK03**	**324**	**Purchase Order Number** Identifying number for Purchase Order assigned by the orderer/purchaser TXNUM (LQR-2) = Transaction Number	**M**	**AN 1/22**
M	**BAK04**	**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*ACC*RESPONSE (LQR-6)*RESPONSE

Data Element Summary

	Ref. Des. Attributes	Data Element	Name		
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification ACC Status	**M**	**ID 2/3**
	REF02	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier RESPONSE (LQR-6) = Response	**X**	**AN 1/30**
	REF03	**352**	**Description** A free-form description to clarify the related data elements and their content "RESPONSE"	**X**	**AN 1/80**

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*02*ECCKTQ (LQR-25)*EA

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
	PAM01	**673**	**Quantity Qualifier** Code specifying the type of quantity 02 Cumulative Quantity	**X**	**ID 2/2**
	PAM02	**380**	**Quantity** Numeric value of quantity ECCKTQ (LQR-25) = Circuit 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: **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}(LQR-3)*D/TSENT{HHMM}(LQR-3)

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	**M**	**ID 3/3**
	DTM02	**373**	**Date** Date expressed as CCYYMMDD D/TSENT (LQR-3) = Date Sent	**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}(LQR-3) = 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*IR*TXACT (LQR-5)*IQ*TXTYP (LQR-4)

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 IR Transaction Activity	**M**	**AN 2/2**
M	**SI03**	**234**	**Product/Service ID** Identifying number for a product or service TXACT (LQR-5) = Transaction Activity	**M**	**AN 1/48**
	SI04	**1000**	**Service Characteristics Qualifier** Code from an industry code list qualifying the type of service characteristics IQ Inquiry Type	**X**	**AN 2/2**
	SI05	**234**	**Product/Service ID** Identifying number for a product or service TXTYP (LQR-4) = Transaction Type	**X**	**AN 1/48**

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 (LQR-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 (LQR-1) = Customer Carrier Name Abbreviation	**X**	**AN 1/60**

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*BY**25*CC (LQR-7)

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 BY Buying Party (Purchaser)	**M**	**ID 2/3**
	N103	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) 25 Carrier's Customer Code	**X**	**ID 1/2**
	N104	**67**	**Identification Code** Code identifying a party or other code CC (LQR-7) = Company Code	**X**	**AN 2/80**

Segment: **PO1** **Baseline Item Data - Bad**
Position: 0100
Loop: PO1 Optional
Level: Detail
Usage: Optional
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*BAD [PO1 Loop will be used if RESPONSE (LQR-6) = 'B']

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 "BAD"	**X**	**AN 1/48**

Segment: **QTY** **Quantity**
Position: 3000
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify quantity information
Syntax Notes: **1** At least one of QTY02 or QTY04 is required.
2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: **1** QTY04 is used when the quantity is non-numeric.
Comments:
Notes: QTY*03*ERRNUM (LQR-61)*EA

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**QTY01**	**673**	**Quantity Qualifier** Code specifying the type of quantity 03 Discreet Quantity - Rejected Material	**M**	**ID 2/2**
	QTY02	**380**	**Quantity** Numeric value of quantity ERRNUM (LQR-61) = Number of Errors	**X**	**R 1/15**
	QTY03	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**O**	
M	**C00101**	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken EA Each	**M**	**ID 2/2**

Segment: **N9** **Reference Identification**
Position: 3500
Loop: N9 Optional
Level: Detail
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*1Q*ERRCODE (LQR-62)*ERR [N9 Loop repeats ERRNUM (LQR-61) times]

Data Element Summary

	Ref. Des.	Data Element	Name		
	Attributes				
M	**N901**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 1Q Error Identification Code Qualifies a single number that describes an error found in application-level data	**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 ERRCODE (LQR-62) = Error Code	**X**	**AN 1/30**
	N903	**369**	**Free-form Description** Free-form descriptive text "ERR"	**X**	**AN 1/45**

Segment: **MTX** **Text**
Position: 3600
Loop: N9 Optional
Level: Detail
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**ERRMESG (LQR-63)

Data Element Summary

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

Segment: **PO1** **Baseline Item Data - Address Response Section**
Position: 0100
Loop: PO1 Optional
Level: Detail
Usage: Optional
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*ADDRESS [PO1 Loop will be used if RESPONSE (LQR-6) = 'G']

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 "ADDRESS"	**X**	**AN 1/48**

Segment: **N1** **Name**
Position: 3700
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*ADDRESS

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 "ADDRESS"	**X**	**AN 1/60**

Segment: **N4** **Geographic Location**
Position: 4000
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 (LQR-23)*ZIP (LQR-24)

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 (LQR-23) = 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 (LQR-24) = ZIP/Postal Code	**O**	**ID 3/15**

Segment: **NX2** **Location ID Component**
Position: 4050
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 (LQR-10)
NX2*02*SASN (LQR-13)
NX2*03*SASD (LQR-12)
NX2*07*CITY (LQR-22)
NX2*40*SASS (LQR-15)
NX2*59*SAPR (LQR-9)
NX2*61*SASF (LQR-11)
NX2*62*SATH (LQR-14)
NX2*LD1 (LQR-16)*LV1 (LQR-17)
NX2*LD2 (LQR-18)*LV2 (LQR-19)
NX2*LD3 (LQR-20)*LV3 (LQR-21)

Data Element Summary

	Ref. Des. Attributes	Data Element	Name		
M	**NX201**	**1106**	**Address Component Qualifier** Code qualifying the type of address component LD1 (LQR-16) = Location Designator 1 13=(DWS : APT) 34=(DWS : LOT) 35=(DWS : RM) 36=(DWS : SLIP) 37=(DWS : UNIT) 14=(DWS : SUIT) LD2 (LQR-18) = Location Designator 2 32=(DWS : FLR) LD3 (LQR-20) = Location Designator 3 12=(DWS : BLDG) 63=(DWS : WNG) 30=(DWS : PIER) 01 Street Number 02 Street Name 03 Prefix Direction 07 City Name 12 Building Name 13 Apartment Number 14 Suite Number 30 Pier The pier at which a ship or boat is docked	**M**	**ID 2/2**

			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		
			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 (LQR-10) = Service Address Number SASN (LQR-13) = Service Address Street Name SASD (LQR-12) = Service Address Street Directional Prefix CITY (LQR-22) = City SASS (LQR-15) = Service Address Street Directional Suffix SAPR (LQR-9) = Service Address Number Prefix SASF (LQR-11) = Service Address Number Suffix SATH (LQR-14) = Service Address Street Type LV1 (LQR-17) = Location Value 1 LV2 (LQR-19) = Location Value 2 LV3 (LQR-21) = Location Value 3		

Segment: **PO1** **Baseline Item Data - Circuit Information Section**
Position: 0100
Loop: PO1 Optional
Level: Detail
Usage: Optional
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*ECCKT [PO1 Loop will be used if RESPONSE (LQR-6) = 'G' and repeats ECCKTQ (LQR-25) 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 "ECCKT"	**X**	**AN 1/48**

Segment: **SLN** **Subline Item Detail**
Position: 4900
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*ECCKT*n*A*1*EA

Data Element Summary

	Ref. Des. Attributes	Data Element	Name		
M	**SLN01**	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set "ECCKT"	**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** Numeric value of quantity	**X**	**R 1/15**

			1 Always One			
	SLN05	**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: **SI** **Service Characteristic Identification**
Position: 5000
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*CN*ECCKT (LQR-29)
SI*TI*LX*NPANXX (LQR-27)
SI*TI*WT*WTN (LQR-28)

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 CN Circuit Number Identification LX Local Exchange WT Working Telephone Number	**M**	**AN 2/2**
M	**SI03**	**234**	**Product/Service ID** Identifying number for a product or service ECCKT (LQR-29) = Exchange Company Circuit ID NPANXX (LQR-27) = NPA/NXX WTN (LQR-28) = Working Telephone Number	**M**	**AN 1/48**

Segment: **QTY** **Quantity**
Position: 5590
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify quantity information
Syntax Notes: **1** At least one of QTY02 or QTY04 is required.
2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: **1** QTY04 is used when the quantity is non-numeric.
Comments:
Notes: QTY*02*ECCKTNUM (LQR-26)*EA

Data Element Summary

	Ref. Des.	Data Element	Name		
	Attributes				
M	**QTY01**	**673**	**Quantity Qualifier**	**M**	**ID 2/2**
			Code specifying the type of quantity 02 Cumulative Quantity		
	QTY02	**380**	**Quantity**	**X**	**R 1/15**
			Numeric value of quantity ECCKTNUM (LQR-26) = Circuit Number		
	QTY03	**C001**	**Composite Unit of Measure**	**O**	
			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: **PO1** **Baseline Item Data - Loop Qualification Response Section**
Position: 0100
Loop: PO1 Optional
Level: Detail
Usage: Optional
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*LOOPQUAL [PO1 Loop will be used if RESPONSE (LQR-6) = 'G' and for Unbundled ADSL or Qwest DSl query and repeats ECCKTQ (LQR-25) 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 "LOOPQUAL"	**X**	**AN 1/48**

Segment: **SLN** **Subline Item Detail**
Position: 4900
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*LOOPQUAL*n*A*1*EA

Data Element Summary

	Ref. Des. Attributes	Data Element	Name		
M	**SLN01**	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set "LOOPQUAL"	**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** Numeric value of quantity	**X**	**R 1/15**

			1 Always One			
	SLN05	**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: **MTX** **Text**
Position: 4950
Loop: SLN Optional
Level: Detail
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**LOOPQUALMESG (LQR-31)

Data Element Summary

Ref. Des.	Data Element	Name		Attributes
MTX02	**1551**	**Message Text** To transmit large volumes of message text LOOPQUALMESG (LQR-31) = Loop Qualification Message	**X**	**AN 1/4096**

Segment: **SI** **Service Characteristic Identification**
Position: 5000
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*L2*LOOPSTAT (LQR-30)

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 L2 Loop Status	**M**	**AN 2/2**
M **SI03**	**234**	**Product/Service ID** Identifying number for a product or service LOOPSTAT (LQR-30) = Loop Status	**M**	**AN 1/48**

Segment: **PID** **Product/Item Description**
Position: 5100
Loop: SLN Optional
Level: Detail
Usage: Optional
Max Use: 1000
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*X**TI*LPAC*LPAC (LQR-32)

Data Element Summary

	Ref. Des. Attributes	Data Element	Name		
M	**PID01**	**349**	**Item Description Type** Code indicating the format of a description X Semi-structured (Code and Text)	**M**	**ID 1/1**
	PID03	**559**	**Agency Qualifier Code** Code identifying the agency assigning the code values TI Telecommunications Industry	**X**	**ID 2/2**
	PID04	**751**	**Product Description Code** A code from an industry code list which provides specific data about a product characteristic LPAC Loop Product Available	**X**	**AN 1/12**
	PID05	**352**	**Description** A free-form description to clarify the related data elements and their content LPAC (LQR-32) = Loop Product Available Code	**X**	**AN 1/80**

Segment: **PO1** **Baseline Item Data - Loop Level Data Response Section**
Position: 0100
Loop: PO1 Optional
Level: Detail
Usage: Optional
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*LOOPLVLDATA [PO1 Loop will be used if RESPONSE (LQR-6) = 'G' and LPAC (LQR-32) = 'QDSL' or Blank and repeats ECCKTQ (LQR-25) 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 "LOOPLVLDATA"	**X**	**AN 1/48**	

Segment: **SI** **Service Characteristic Identification**
Position: 0180
Loop: PO1 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*LO*LST (LQR-36)
SI*TI*M7*F1LPCP (LQR-59)
SI*TI*M0*F2LPCP (LQR-60)

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 LO Local Exchange Carrier Serving Office M0 F2 Loop Composition M7 F1 Loop Composition	**M**	**AN 2/2**
M	**SI03**	**234**	**Product/Service ID** Identifying number for a product or service LST (LQR-36) = Local Service Termination F1LPCP (LQR-59) = F1 Loop Composition F2LPCP (LQR-60) = F2 Loop Composition	**M**	**AN 1/48**

Segment: **MEA** **Measurements**
Position: 0490
Loop: PO1 Optional
Level: Detail
Usage: Optional
Max Use: 40
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:
1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2 If MEA05 is present, then MEA04 is required.
3 If MEA06 is present, then MEA04 is required.
4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:
1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:
1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
Notes:
MEA*AF*LN*LL (LQR-46):length*TL/DK***LLT (LQR-45)
MEA*RN*GG*LLG (LQR-48):length*TL/DK>>>GZ>GAUGE [MEA Segement repeats LLGQ (LQR-47) times]

MEA*EL*LN*ELL (LQR-40):length*TL/DK***31

Data Element Summary

	Ref. Des. Attributes	Data Element	Name		
	MEA01	**737**	**Measurement Reference ID Code**	**O**	**ID 2/2**
			Code identifying the broad category to which a measurement applies		
			AF Actual Total		
			EL Electrical Characteristics		
			RN Lengths Limitation		
	MEA02	**738**	**Measurement Qualifier**	**O**	**ID 1/3**
			Code identifying a specific product or process characteristic to which a measurement applies		
			GG Gauge		
			LN Length		
	MEA03	**739**	**Measurement Value**	**X**	**R 1/20**
			The value of the measurement		
			LL (LQR-46) = Loop Length LLT (LQR-45) = Loop Length Type LLG (LQR-48) = Loop Length by Gauge ELL (LQR-40) = Equivalent Loop Length		
	MEA04	**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		

		Unit of Measure for LL (LQR-46), LLG (LQR-48), ELL (LQR-40) TL=(DWS : kft) DK=(DWS : km)		
		DK Kilometers		
		TL Thousand Feet (Linear)		
C00104	**355**	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
		For the 3rd Character of LLG (LQR-48) GZ=(DWS : G)		
		GZ Gage Systems		
C00105	**1018**	**Exponent**	**O**	**R 1/15**
		Power to which a unit is raised		
		For the 1st and 2nd Character of LLG (LQR-48) 19=(DWS : 19) 22=(DWS : 22) 24=(DWS : 24) 26=(DWS : 26)		
MEA07	**935**	**Measurement Significance Code**	**O**	**ID 2/2**
		Code used to benchmark, qualify or further define a measurement value		
		LLT (LQR-45) = Loop Length Type 22=(DWS : A = Actual) 64=(DWS : B = Estimated) 58=(DWS : C = Electrical)		
		22 Actual		
		31 Calculated		
		58 Planned		
		64 Effective		

Segment: **PID** **Product/Item Description**
Position: 0500
Loop: PID Optional
Level: Detail
Usage: Optional
Max Use: 1
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*X**TI*AI*PGPRES (LQR-37)
PID*S**TI*RSUIND***SO-RSQ*RSUIND (LQR-44)
PID*X**TI*LCT*LCT (LQR-50) [PID Segment repeats LCQ (LQR-49) times]

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)		
			X	Semi-structured (Code and Text)		
	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			
			AI	Pair Gain		
			LCT	Load Coil Type		
			RSUIND	Remote Switch Unit Indicator		
	PID05	**352**	**Description**		**X**	**AN 1/80**
			A free-form description to clarify the related data elements and their content			

		PGPRES (LQR-37) = Pair Gain/DLC Presence LCT (LQR-50) = Load Coil Type		
PID07	**822**	**Source Subqualifier** A reference that indicates the table or text maintained by the Source Qualifier SO-RSQ Service Order - Reseller Questions list	**O**	**AN 1/15**
PID08	**1073**	**Yes/No Condition or Response Code** Code indicating a Yes or No condition or response RSUIND (LQR-44) = Remote Switching Unit Indicator	**O**	**ID 1/1**

Segment: **QTY** **Quantity**
Position: 3000
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify quantity information
Syntax Notes: **1** At least one of QTY02 or QTY04 is required.
2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: **1** QTY04 is used when the quantity is non-numeric.
Comments:
Notes: QTY*TO*LCQ (LQR-49)*EA

Data Element Summary

	Ref. Des.	Data Element	Name		
	Attributes				
M	**QTY01**	**673**	**Quantity Qualifier**	**M**	**ID 2/2**
			Code specifying the type of quantity TO Total		
	QTY02	**380**	**Quantity**	**X**	**R 1/15**
			Numeric value of quantity LCQ (LQR-49) = Load Coil Quantity		
	QTY03	**C001**	**Composite Unit of Measure**	**O**	
			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: **SI** **Service Characteristic Identification**
Position: 3020
Loop: QTY 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*QT*LCQ

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 QT Quantity Qualifier	**M**	**AN 2/2**
M **SI03**	**234**	**Product/Service ID** Identifying number for a product or service "LCQ"	**M**	**AN 1/48**

Segment: **QTY** **Quantity**
Position: 3000
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify quantity information
Syntax Notes: **1** At least one of QTY02 or QTY04 is required.
2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: **1** QTY04 is used when the quantity is non-numeric.
Comments:
Notes: QTY*TO*BTQ (LQR-52)*EA

Data Element Summary

	Ref. Des.	Data Element	Name		
	Attributes				
M	**QTY01**	**673**	**Quantity Qualifier**	**M**	**ID 2/2**
			Code specifying the type of quantity TO Total		
	QTY02	**380**	**Quantity**	**X**	**R 1/15**
			Numeric value of quantity BTQ (LQR-52) = Bridge Tap Quantity		
	QTY03	**C001**	**Composite Unit of Measure**	**O**	
			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: **SI** **Service Characteristic Identification**
Position: 3020
Loop: QTY 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*QT*BTQ

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 QT Quantity Qualifier	**M**	**AN 2/2**
M **SI03**	**234**	**Product/Service ID** Identifying number for a product or service "BTQ"	**M**	**AN 1/48**

Segment: **QTY** **Quantity**
Position: 3000
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify quantity information
Syntax Notes: **1** At least one of QTY02 or QTY04 is required.
2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: **1** QTY04 is used when the quantity is non-numeric.
Comments:
Notes: QTY*TO*LLGQ (LQR-47)*EA

Data Element Summary

	Ref. Des.	Data Element	Name		
	Attributes				
M	**QTY01**	**673**	**Quantity Qualifier**	**M**	**ID 2/2**
			Code specifying the type of quantity TO Total		
	QTY02	**380**	**Quantity**	**X**	**R 1/15**
			Numeric value of quantity LLGQ (LQR-47) = Loop Length by Gauge Quantity		
	QTY03	**C001**	**Composite Unit of Measure**	**O**	
			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: **SI** **Service Characteristic Identification**
Position: 3020
Loop: QTY 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*QT*LLGQ

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 QT Quantity Qualifier	**M**	**AN 2/2**
M	**SI03**	**234**	**Product/Service ID** Identifying number for a product or service "LLGQ"	**M**	**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**