Design Layout Record
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11. Design Layout Record

11.1 Business Description

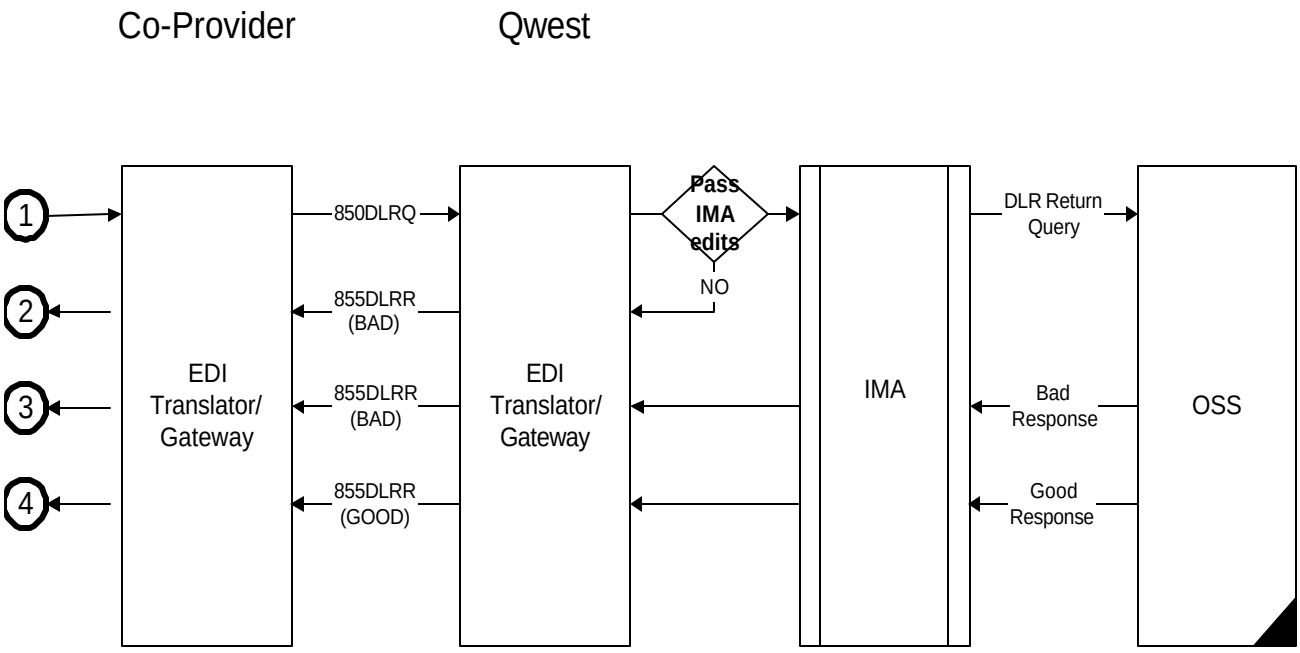
A Design Layout Record (DLR) contains the technical information of a specific circuit identifying the facilities and terminations provided by Qwest to CLECs. A DLR is furnished at a customer's request and the CLEC utilizes this technical information to design the customer's overall service. To obtain a DLR, input a Circuit ID owned by a CLEC and submit a DLR request. The submitter will receive either the requested DLR data or an error message stating why the data was not returned.

11.2 Business Model

Design Layout Record Return

The Design Layout Record Return gives the Co-Provider the ability to query for and receive information regarding a circuit's technical information describing the facilities and terminations provided by the local telephone company (Qwest). The technical information can be used by the Co-Provider to design the overall service.

DESIGN LAYOUT RECORD RETURN



1. The Co-Provider submits an 850DLRQ.

2. If the 850DLRQ fails the IMA edits, 855DLRR (BAD) will be returned.

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

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

4. An 855DLRR (GOOD) will be returned with the Design Layout Record.

11.3 Developer Worksheets

See Appendix A - Developer Worksheets – Pre-Order

11.4 Trading Partner Access Information

PRE-ORDER FUNCTION	PRODUCT ID
Design Layout Record Query	850DLRQ
Design Layout Record Response	855DLRR

11.4.1 OVERVIEW: Functional Group Envelope - Routing Information

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

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

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

11.4.2 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)*

11.4.3 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**
Design Layout Record Query	Receive	850DLRQ	PO	*Co-Provider TP ID*	**DLR90**
Design Layout Record Response	Send	855DLRR	PR	**DLR90**	*Co-Provider TP ID*

11.4.4 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

11.5 Mapping Examples

11.5.1 850 DLR RETURN QUERY (850DLRQ) – Version 4020

Legend of Symbols in this transaction example

Symbol/Definition	Example
{ } = Valid Format	{CCYYMMDD}
Bold/Italics = Developer's Worksheet Element	***PON***
Superscript = Developer's Worksheet Ref # DWS used in this mapping example: DLRQ = Design Layout Record Query DLRR = Design Layout Record Response	LSR-2
Italics = Literal	*GOOD*
Underline = Apply code conversion, used with ***Bold/Italics***. Code conversion tables can be found in the data dictionary of this disclosure.	***ACT***
[ ] = Segment notes for this line	[SI Segment repeats …]
( ) = Element notes for this line	(This element states …)
n	Counter 1…n
* = Element separator in this example and related data dictionary.	| = Actual element separator in an EDI transaction.
> = Sub-element separator in this example and related data dictionary.	non-printable characters of "0x1f" = Actual sub-element separator in an EDI transaction.

ST*850*TRAN SET CONTROL #
BEG*28*IN****TXNUM***DLRQ-3**PO Date (See Trading Partner Access Information)
DTM*097****D/TSENT***{CCYYMMDD}DLRQ-4****D/TSENT***{HHMM}DLRQ-4
SI*TI*IR****TXACT***DLRQ-6*IQ****TXTYP***DLRQ-5*****SS*****SCATEG***DLRQ-7
N1*78****CCNA***DLRQ-1
N1*BT**92****ACNA***DLRQ-2

PO1*n*1*EA***ZZ**DLRQ*
SI*TI*SI****CKTFORMAT***DLRQ-8
SI*TI*F1****SERNUMCKT***DLRQ-9
SI*TI*F2****TELNUMCKT***DLRQ-10
SI*TI*F3****CARFACCKT***DLRQ-11
SI*TI*F4****MSGTRKCKT***DLRQ-12

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

11.5.2 **855 DLRR - DLR RETURN RESPONSE (855DLRR) - Version 4020**

ST*855*TRAN SET CONTROL #
BAK*11*AT***TXNUM***[DLRR-3]*PO Date (See Trading Partner Access Information)
DTM*097***D/TSENT**{CCYYMMDD}[DLRR-4]***D/TSENT**{HHMM}[DLRR-4]
SI*TI*IR***TXACT**[DLRR-6]*IQ***TXTYP**[DLRR-5]*SS****SCATEG**[DLRR-8]
N1*78***CCNA**[DLRR-1]
N1*BT**92***ACNA**[DLRR-2]

BAD

PO1*n*1*EA***ZZ**BAD* [PO1 Loop will be used if ***RESPONSE***[DLRR-7] = "B"]
ACK*IR**********TI**SERVICE****RESPONSE***[DLRR-7]
QTY*03***ERRNUM***[DLRR-17]*EA
N9*1Q***ERRCODE***[DLRR-18]**ERR* [N9 loop repeats ***ERRNUM***[DLRR-17] times]
MTX****ERRMESG***[DLRR-19]

GOOD

PO1*n*1*EA***ZZ**DLRR* [PO1 Loop will be used if ***RESPONSE***[DLRR-7] = "G"]
SI*TI*SI****CKTFORMAT***[DLRR-9]
SI*TI*F1****SERNUMCKT***[DLRR-10]
SI*TI*F2****TELNUMCKT***[DLRR-11]
SI*TI*F3****CARFACCKT***[DLRR-12]
SI*TI*F4****MSGTRKCKT***[DLRR-13]
ACK*IA**********TI**SERVICE****RESPONSE***[DLRR-7]
QTY*01***NUMDLRDTL***[DLRR-15]*EA
SLN**GOOD*n*A*1*EA
MTX****DLRHDR***[DLRR-14] [MTX Segment may repeat]
N9*L1**DETAIL* [N9 Loop repeats ***NUMDLRDTL***[DLRR-15] times]
MTX****DLRDTL***[DLRR-16]

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

11.6 DATA DICTIONARY

11.6.1 850 Design Layout Record Query (850DLR)

Functional Group ID=PO

Introduction:

The 850DLR will be used by the Co-Provider to initiate a request for the current circuit design from Qwest.

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

Notes:

This 850 Transaction includes the mapping for Design Layout Record 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		
			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 - Design Layout Record Query	M	1		n1
	0180	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		n2
M	0300	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. PO102 is required.
2. 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 850 850 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 (DLRQ-3)**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 (DLRQ-3) = Transaction Number	**M**	**AN 1/22**
M	**BEG05**	**373**	**Date** Date expressed as CCYYMMDD PO 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} (DLRQ-4)*D/TSENT{HHMM} (DLRQ-4)

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 (DLRQ-4) = 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} (DLRQ-4) = 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 (DLRQ-6)*IQ*TXTYP (DLRQ-5)*SS*SCATEG (DLRQ-7)

Data Element Summary

Attributes	Ref. Des.	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	**M**	**AN 2/2**
M	**SI03**	**234**	**Product/Service ID** Identifying number for a product or service TXACT (DLRQ-6) = 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 (DLRQ-5) = Transaction Type	**X**	**AN 1/48**
	SI06	**1000**	**Service Characteristics Qualifier** Code from an industry code list qualifying the type of service characteristics SS Service Sub-category Code	**X**	**AN 2/2**
	SI07	**234**	**Product/Service ID** Identifying number for a product or service SCATEG (DLRQ-7) = Search Category	**X**	**AN 1/48**

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 (DLRQ-1)

Data Element Summary

	Ref. Des. Attributes	Data Element	Name		
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual 78 Service Requester	**M**	**ID 2/3**
	N102	**93**	**Name** Free-form name CCNA (DLRQ-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*BT**92*ACNA (DLRQ-2)

Data Element Summary

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

Segment: **PO1** **Baseline Item Data - Design Layout Record Query**
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*DLRQ

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 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 "DLRQ"	**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*SI*CKTFORMAT (DLRQ-8)
SI*TI*F1*SERNUMCKT (DLRQ-9)
SI*TI*F2*TELNUMCKT (DLRQ-10)
SI*TI*F3*CARFACCKT (DLRQ-11)
SI*TI*F4*MSGTRKCKT (DLRQ-12)

Data Element Summary

	Ref. Des. Attributes	Data Element	Name			
M	**SI01**	**559**	**Agency Qualifier Code**		**M**	**ID 2/2**
			Code identifying the agency assigning the code values			
			TI	Telecommunications Industry		
M	**SI02**	**1000**	**Service Characteristics Qualifier**		**M**	**AN 2/2**
			Code from an industry code list qualifying the type of service characteristics			
			F1	Facility Designation		
			F2	Facility Type		
			F3	Location A		
			F4	Location Z		
			SI	Circuit Number Special ID		
M	**SI03**	**234**	**Product/Service ID**		**M**	**AN 1/48**
			Identifying number for a product or service			
			CKTFORMAT (DLRQ-8) = Circuit ID format type SERNUMCKT (DLRQ-9) = Serial Number Circuit TELNUMCKT (DLRQ-10) = Telephone Number Circuit CARFACCKT (DLRQ-11) = Carriers Facility Circuit MSGTRKCKT (DLRQ-12) = Message Trunk Circuit			

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 Number of PO1 Segments	**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*No 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 No of 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 TRAN SET CONTROL #	**M**	**AN 4/9**

11.6.2 855 Design Layout Record Response (855DLR)

Functional Group ID=PR

Introduction:

The 855DLR will be used by Qwest to respond to a Design Layout Record Query (850DLR) 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 Design Layout Record 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		
	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 - Design Layout Record (Bad Response)	O	1		n1
			LOOP ID - ACK			104	
	2700	ACK	Line Item Acknowledgment	O	1		
			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 - Design Layout Record (Good Response)	O	1		n2
	0180	SI	Service Characteristic Identification	O	>1		

			LOOP ID - ACK			104	
	2700	ACK	Line Item Acknowledgment	O	1		
			LOOP ID - QTY			>1	
	3000	QTY	Quantity	O	1		
			LOOP ID - SLN			>1	
	4900	SLN	Subline Item Detail	O	1		
	4950	MTX	Text	O	>1		
			LOOP ID - N9			>1	
	5630	N9	Reference Identification	O	1		
	5650	MTX	Text	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		n3
M	0300	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. PO102 is required.
2. PO102 is required.
3. 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 (DLRR-3)*PO Date (See Trading Partner Access Information)

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
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 (DLRR-3) = Transaction Number	**M**	**AN 1/22**
M	**BAK04**	**373**	**Date** Date expressed as CCYYMMDD 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} (DLRR-4)*D/TSENT{HHMM} (DLRR-4)

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 (DLRR-4) = 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} (DLRR-4) = 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 (DLRR-6)*IQ*TXTYP (DLRR-5)*SS*SCATEG (DLRR-8)

Data Element Summary

Attributes	Ref. Des.	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	**M**	**AN 2/2**
M	**SI03**	**234**	**Product/Service ID** Identifying number for a product or service TXACT (DLRR-6) = 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 (DLRR-5) = Transaction Type	**X**	**AN 1/48**
	SI06	**1000**	**Service Characteristics Qualifier** Code from an industry code list qualifying the type of service characteristics SS Service Sub-category Code	**X**	**AN 2/2**
	SI07	**234**	**Product/Service ID** Identifying number for a product or service SCATEG (DLRR-8) = Search Category	**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 (DLRR-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 (DLRR-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*BT**92*ACNA (DLRR-2)

Data Element Summary

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

Segment: **PO1** **Baseline Item Data - Design Layout Record (Bad Response)**
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 (DLRR-7) = '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 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: **ACK** **Line Item Acknowledgment**
Position: 2700
Loop: ACK Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To acknowledge the ordered quantities and specify the ready date for a specific line item
Syntax Notes:
1 If either ACK02 or ACK03 is present, then the other is required.
2 If ACK04 is present, then ACK05 is required.
3 If either ACK07 or ACK08 is present, then the other is required.
4 If either ACK09 or ACK10 is present, then the other is required.
5 If either ACK11 or ACK12 is present, then the other is required.
6 If either ACK13 or ACK14 is present, then the other is required.
7 If either ACK15 or ACK16 is present, then the other is required.
8 If either ACK17 or ACK18 is present, then the other is required.
9 If either ACK19 or ACK20 is present, then the other is required.
10 If either ACK21 or ACK22 is present, then the other is required.
11 If either ACK23 or ACK24 is present, then the other is required.
12 If either ACK25 or ACK26 is present, then the other is required.
13 If either ACK27 or ACK28 is present, then the other is required.
14 If ACK28 is present, then both ACK27 and ACK29 are required.
Semantic Notes:
1 ACK29 Industry Reason Code may be used to identify the item status. In addition, it may be used in conjunction with ACK01 to further clarify the status.
Comments:
Notes: ACK*IR**********TI*SERVICE*RERSPONSE (DLRR-7)

Data Element Summary

	Ref. Des.	Data Element	Name		
	Attributes				
M	**ACK01**	**668**	**Line Item Status Code**	**M**	**ID 2/2**
			Code specifying the action taken by the seller on a line item requested by the buyer		
			IR Item Rejected		
	ACK27	**559**	**Agency Qualifier Code**	**X**	**ID 2/2**
			Code identifying the agency assigning the code values		
			TI Telecommunications Industry		
	ACK28	**822**	**Source Subqualifier**	**X**	**AN 1/15**
			A reference that indicates the table or text maintained by the Source Qualifier		
			"SERVICE"		
	ACK29	**1271**	**Industry Code**	**X**	**AN 1/30**
			Code indicating a code from a specific industry code list		
			RESPONSE (DLRR-7) = Response		

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 (DLRR-17)*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 (DLRR-17) = 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 (DLRR-18)*ERR [N9 Loop repeats, ERRNUM (DLRR-17) 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 (DLRR-18) = 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 (DLRR-19)

Data Element Summary

Ref. Des.	Data Element	Name		Attributes
MTX02	**1551**	**Message Text** To transmit large volumes of message text ERRMESG (DLRR-19) = Error Message	**X**	**AN 1/4096**

Segment: **PO1** **Baseline Item Data - Design Layout Record (Good Response)**
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*DLRR [PO1 Loop will be used if RESPONSE(DLRR-7) = '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 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 "DLRR"	**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*SI*CKTFORMAT (DLRR-9)
SI*TI*F1*SERNUMCKT (DLRR-10)
SI*TI*F2*TELNUMCKT (DLRR-11)
SI*TI*F3*CARFACCKT (DLRR-12)
SI*TI*F4*MSGTRKCKT (DLRR-13)

Data Element Summary

	Ref. Des. Attributes	Data Element	Name			
M	**SI01**	**559**	**Agency Qualifier Code**		**M**	**ID 2/2**
			Code identifying the agency assigning the code values			
			TI	Telecommunications Industry		
M	**SI02**	**1000**	**Service Characteristics Qualifier**		**M**	**AN 2/2**
			Code from an industry code list qualifying the type of service characteristics			
			F1	Facility Designation		
			F2	Facility Type		
			F3	Location A		
			F4	Location Z		
			SI	Circuit Number Special ID		
M	**SI03**	**234**	**Product/Service ID**		**M**	**AN 1/48**
			Identifying number for a product or service			
			CKTFORMAT (DLRR-9) = Circuit ID format type SERNUMCKT (DLRR-10) = Serial Number Circuit TELNUMCKT (DLRR-11) = Telephone Number Circuit CARFACCKT (DLRR-12) = Carriers Facility Circuit MSGTRKCKT (DLRR-13) = Message Trunk Circuit			

Segment: **ACK** **Line Item Acknowledgment**
Position: 2700
Loop: ACK Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To acknowledge the ordered quantities and specify the ready date for a specific line item
Syntax Notes:
1 If either ACK02 or ACK03 is present, then the other is required.
2 If ACK04 is present, then ACK05 is required.
3 If either ACK07 or ACK08 is present, then the other is required.
4 If either ACK09 or ACK10 is present, then the other is required.
5 If either ACK11 or ACK12 is present, then the other is required.
6 If either ACK13 or ACK14 is present, then the other is required.
7 If either ACK15 or ACK16 is present, then the other is required.
8 If either ACK17 or ACK 18 is present, then the other is required.
9 If either ACK19 or ACK20 is present, then the other is required.
10 If either ACK21 or ACK22 is present, then the other is required.
11 If either ACK23 or ACK24 is present, then the other is required.
12 If either ACK25 or ACK26 is present, then the other is required.
13 If either ACK27 or ACK28 is present, then the other is required.
14 If ACK28 is present, then both ACK27 and ACK29 are required.
Semantic Notes:
1 ACK29 Industry Reason Code may be used to identify the item status. In addition, it may be used in conjunction with ACK01 to further clarify the status.
Comments:
Notes: ACK*IA**********TI*SERVICE*RESPONSE (DLRR-7)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**ACK01**	**668**	**Line Item Status Code** Code specifying the action taken by the seller on a line item requested by the buyer IA Item Accepted	**M**	**ID 2/2**
	ACK27	**559**	**Agency Qualifier Code** Code identifying the agency assigning the code values TI Telecommunications Industry	**X**	**ID 2/2**
	ACK28	**822**	**Source Subqualifier** A reference that indicates the table or text maintained by the Source Qualifier "SERVICE"	**X**	**AN 1/15**
	ACK29	**1271**	**Industry Code** Code indicating a code from a specific industry code list RESPONSE (DLRR-7) = Response	**X**	**AN 1/30**

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*01*NUMDLRDTL (DLRR-15)*EA

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**QTY01**	**673**	**Quantity Qualifier** Code specifying the type of quantity 01 Discrete Quantity	**M**	**ID 2/2**
	QTY02	**380**	**Quanity** Numeric value of quantity NUMDLRDTL (DLRR-15) = Number of Design Layout Record Details	**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: **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*GOOD*n*A*1*EA

Data Element Summary

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

			Numeric value of quantity			
			1 Always One			
	SLN05	**C001**	**Composite Unit of Measure**	**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**DLRHDR (DLRR-14) [MTX Segment may repeat]

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
MTX02	**1551**	**Message Text** To transmit large volumes of message text DLRHDR (DLRR-14) = Design Layout Record Header	**X**	**AN 1/4096**

Segment: **N9** **Reference Identification**
Position: 5630
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*L1*DETAIL [N9 Loop repeats NUMDLRDTL (DLRR-15) times]

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N901**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification L1 Letters or Notes	**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 "DETAIL"	**X**	**AN 1/30**

Segment: **MTX** **Text**
Position: 5650
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**DLRDTL (DLRR-16)

Data Element Summary

Ref. Des.	Data Element	Name		Attributes
MTX02	**1551**	**Message Text** To transmit large volumes of message text DLRDTL (DLRR-16) = Design Layout Record Details	**X**	**AN 1/4096**

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 Number of PO1 Segments	**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*No 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 No of 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 TRAN SET CONTROL #	**M**	**AN 4/9**