Address Validation Transaction Cycle

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4. Address Validation Transaction Cycle

4.1 Business Description

A CLEC should request an address validation prior to submitting a service request. The address validation verifies the address entered by a CLEC is a valid address in the Qwest legacy systems. An address can be validated by entering either the TN or the Address. Qwest recommends searching by street address, because searches by telephone number do not retrieve addresses for Centrex service, other high-end products, or for addresses without existing service. Searches by telephone number may work for single dwellings or small businesses if customer has a working telephone number and if that number has been linked to the address for at least a few months. Whether searching by street address or telephone number, be sure that the address from Qwest's databases matches the address in your records.

If you search by telephone number, it's best to do so only for single dwellings or small businesses in which your customer has a working telephone number that has been associated with the address for at least a few months.

The response from an address validation query may come back as an Exact Match (includes switch information), an Exact Match with Supplemental Information (includes switch information), Near Match, Multiple Match, Multiple CALA, or Error depending on the information available.

If there is a one-to-one mapping between the address requested and the address in the Qwest legacy system, the response will depict the address obtained as an Exact Match.

An Exact Match with Supplemental Information indicates that the address is an Exact Match and has additional information associated with it. For example, if the address requested is the manager's apartment in an apartment complex, additional apartments in the complex will be indicated in the supplemental information section.

A Near Match occurs when a submitted address cannot be verified as an Exact Match in the Qwest legacy system data. If the address requested contains abbreviations that do not exactly match how the address is stored by Qwest (i.e. AVE vs AV), the address will be returned as a Near Match. (This is only applicable to requests by address.)

A Multiple Match occurs when the Qwest legacy system indicates that more than one address exists for the requested TN. (This is only applicable for requests by TN.)

For Near Match and Multiple Match, the Co-Provider is provided a list of potential matches. The response returned for a Multiple Match or a Near Match has only a limited amount of information to use to submit another request with exact data for an Exact Match.

A Multiple CALA response occurs when a zip code is used on the query and the zip code overlaps multiple Qwest CALA regions. When this occurs, the CALA Field must be used instead of the zip code on the address validation query.

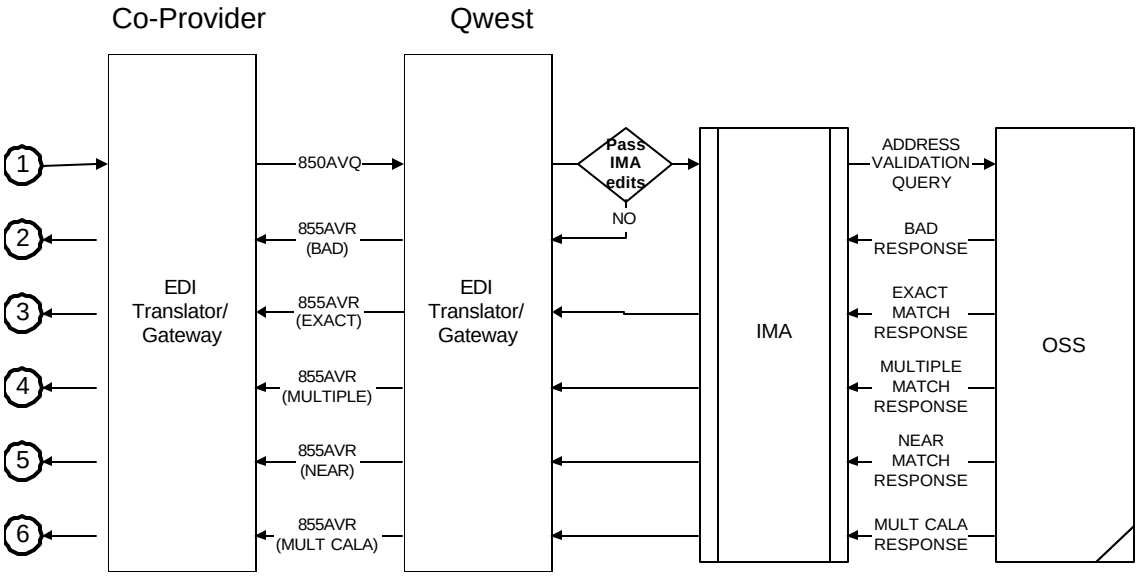
An address that exists in the Street Address Guide (SAG) may not yet have loop facilities available (e.g., typically in a new development) or may have facilities not owned by Qwest. These types of addresses are known as "SAG only" addresses. A "SAG only" message appears when the address validation returns an exact match for an address that exists only in the Street Address Guide. If the address being validated is "SAG only," the due date for the order will exceed the normal timeframe due to the extent of facilities work required at the location..

4.2 Business Model

Address Validation

Address Validation provides a Co-Provider with the capability to utilize a known address or telephone number and validate an address at which service can be provisioned for the end user. The Address Validation transaction consists of two activities: Address Validation Query (AVQ) and Address Validation Response(AVR).

Address Validation



1. The Co-Provider submits an 850AVQ to validate an address. The Co-Provider will provide either a telephone number or an address for the attempted match.

2. An 855AVR (BAD) will be returned if:
   - the 850AVQ fails the IMA edits
   - no addresses can be returned from the OSS
   - the Address Validation query passes the IMA edits but encounters an error in the OSS

   The 855AVR (BAD) will return one or more error messages. If the 850AVQ passes the IMA edits, the query will be sent to the Operation Support Systems (OSS). The System will respond with one of the following responses: EXACT, MULTIPLE, NEAR, MULT CALA or BAD

3. An 855AVR (EXACT) will be returned when an exact address match to the address or TN used in the 850AVQ is found..

4. An 855AVR (MULTIPLE) will be returned when multiple addresses are found for a given telephone number used in the 850AVQ.

5. An 855AVR (NEAR) will be returned when a near match to the address used in the 850AVQ is found.

6. An 855AVR (MULT CALA) will be returned when multiple CALAs exist for a zip code used in the 850AVQ address.

4.3 Developer Worksheets

See Appendix A - Developer Worksheets - PreOrder

4.4 Trading Partner Access Information

PRE-ORDER FUNCTION	PRODUCT ID
Address Validation Query	850AVQ
Address Validation Response	855AVR

4.4.1 OVERVIEW: Qwest Specific Functional Group Envelope - Routing Information

Separate maps have been created for pre-ordering functions. 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 of application related transaction sets.

4.4.2 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)*

4.4.3 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
Address Validation Query	Receive	850AVQ	PO	*Co-provider TP ID*	**AV90**
Address Validation Response	Send	855AVR	PR	**AV90**	*Co-provider TP ID*

4.4.4 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; however, Qwest 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

Composite Element

The appendix noted for any Composite Unit applies to the standard and not to Qwest documentation (i.e.,
See Figures Appendix for examples of use).

4.5 Mapping Examples

4.5.1 850 ADDRESS VALIDATION QUERY (850AVQ) – Version 4020

Legend of Symbols in this transaction example

Symbol/Definition	Example
{ } = Valid Format	{CCYYMMDD}
Bold/Italics = DWS Element	***PON*** AVR-2
Superscript = Developer's Worksheet Ref # DWS used in this mapping example: AVQ = Address Validation Query AVR = Address Validation Response	
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 file and related Data Dictionary	Non-printable characters of "0x1f" = actual sub-element separator in an EDI Transaction.

ST*850*TRAN SET CONTROL NUMBER
BEG*28*IN*___TXNUM___AVQ-2**PO Date (See Trading Partner Access Information)
DTM*097*___D/TSENT___{CCYYMMDD}AVQ-3___*D/TSENT___{HHMM}AVQ-3
SI*TI*IR*___TXACT___AVQ-5*IQ*___TXTYP___AVQ-4
N1*78*___CCNA___AVQ-1
N1*BY**25*___CC___AVQ-7

ADDRESS/WTN

PO1*n*1*EA***ZZ*___SEARCHTYP___AVQ-6
SI*TI*WT*___WTN___AVQ-35 [SI Segment is present only if ___SEARCHTYP___AVQ-6 is "T"]
N1*IT**ADDRESS*
N2*___LNAME___AVQ-29*___LNAME___AVQ-29 (Continued) [N2 Segment is present only if ___SEARCHTYP___AVQ-6 is "A"]
N4**___STATE___AVQ-32*___ZIP___AVQ-33**RJ*___CALA___AVQ-34
NX2*01*___SANO___AVQ-11
NX2*02*___SASN___AVQ-14
NX2*03*___SASD___AVQ-13
NX2*05*___BOX___AVQ-28
NX2*06*___ROUTE___AVQ-27
NX2*07*___CITY___AVQ-31
NX2*39*___AHN___AVQ-26
NX2*40*___SASS___AVQ-16
NX2*59*___SAPR___AVQ-10
NX2*61*___SASF___AVQ-12
NX2*62*___SATH___AVQ-15
NX2*___LD1___AVQ-17*___LV1___AVQ-18
NX2*___LD2___AVQ-19*___LV2___AVQ-20

NX2*__***LD3***__[AVQ-21]***LV3***[AVQ-22]
SI*TI*AF****AFT***[AVQ-9]

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

4.5.2 855 ADDRESS VALIDATION RESPONSE (855AVR) – Version 4020

ST*855*TRAN SET CONTROL #
BAK*11*AT***TXNUM***AVR-2***PO Date (See Trading Partner Access Information)
REF*ACC****ADDRES***AVR-7**ADDRES*
PAM*87****NMNUM***AVR-59**EA
PAM*OC****MCNUM***AVR-91**EA
PAM*02****WTNQ***AVR-7a**EA
DTM*097****D/TSENT***{CCYYMMDD}AVR-3****D/TSENT***{HHMM}AVR-3
SI*TI*IR****TXACT***AVR-5**IQ****TXTYP***AVR-4
N1*78****CCNA***AVR-1
N1*BY**25****CC***AVR-6

No Match or Error

PO1*n*1*EA***ZZ**BAD* [PO1 Loop will be used if ***ADDRES***AVR-7 = "A", "B", "C", or "D" (Messages)]
QTY*03****ERRNUM***AVR-93**EA
N9*1Q****ERRCODE***AVR-94***ERR* [N9 Loop may repeat ***ERRNUM***AVR-93 times]
MTX****ERRMESG***AVR-95

Exact Match

PO1*n*1*EA***ZZ**EXACT* [PO1 Loop will be used if ***ADDRES***AVR-7 = "A" (Exact Match)]
SI*TI*IC****SITEID***AVR-53**TL****TTA***AVR-54**LS****LSO***AVR-55**RS****RATEZONE***AVR-56
QTY*AG****ALTADDNUM***AVR-37a**EA
QTY*NB****PNARMKNUM***AVR-50**EA
QTY*01****SWTYPNUM***AVR-57**EA
SI*TI*SB****SWTYP***AVR-58 [SI Segment may repeat ***SWTYPNUM***AVR-57 times]
N9*L1*LOC**AVR*
MTX****DESCRIPTIVE***AVR-48
N9*L1**PNARMK* [N9 Loop may repeat ***PNARMKNUM***AVR-50 times]
MTX****PNARMK***AVR-51
N9*L1**SLRMK*
MTX****SLRMK***AVR-52
N9*L1**SAGMESS*
MTX****SAGMESS***AVR-37
N1*IT**ADDRESS*
N3****ALTERNATE STREET***AVR-49*****ALTERNATE STREET***AVR-49(Continued)
N4****STATE***AVR-32*****ZIP***AVR-33****RJ****CALA***AVR-34
NX2*01****SANO***AVR-11
NX2*02****SASN***AVR-15
NX2*03****SASD***AVR-14
NX2*05****BOX***AVR-29
NX2*06****ROUTE***AVR-28
NX2*07****CITY***AVR-31
NX2*39****AHN***AVR-27
NX2*40****SASS***AVR-17
NX2*59****SAPR***AVR-10
NX2*61****SASF***AVR-13
NX2*62****SATH***AVR-16
NX2***LD1***AVR-18*****LV1***AVR-19
NX2***LD2***AVR-20*****LV2***AVR-21
NX2***LD3***AVR-22*****LV3***AVR-23
N1*DT**SUPPMATCH* [N1 Loop may repeat ***ALTADDNUM***AVR-37a times]
NX2***LD1***AVR-38*****LV1***AVR-39
NX2***LD2***AVR-40*****LV2***AVR-41

NX2*__***LD3***__[AVR-42]***LV3***[AVR-43]
SLN**WTN*n*A*1*EA [SLN Loop may repeat **WTNQ**[AVR-7a] times]
SI*TI*WT****WTN***[AVR-7b]
SI*TI*W1****WTNSTAT***[AVR-7c]
N1*IT**WTNLISTEDNAME*
N2****LNAME***[AVR-7d]****LNAME***[AVR-7d](Continued)

Near and Multiple Match

[PO1 Loop for Multiple Match when ***ADDRES***[AVR-7] = "D" (Multiple Match)]
[PO1 Loop for Near Match when ***ADDRES***[AVR-7] = "C" (Near Match)]

PO1*n*1*EA***ZZ**MULTIPLENEARMATCH* [PO1 Loop may repeat ***NMNUM***[AVR-59] times]
N9*L1*LOC**AVR*
MTX*****DESCRIPTIVE***[AVR-89]
N1*IT** NEARMULTIPLE*
N2****LNAME***[AVR-90]****LNAME***[AVR-90] (Continued)
N4*****STATE***[AVR-86]****ZIP***[AVR-87]**RJ****CALA***[AVR-88]
NX2*01****SANO***[AVR-62]
NX2*02****SASN***[AVR-68]
NX2*03****SASD***[AVR-65]
NX2*05****BOX***[AVR-84]
NX2*06****ROUTE***[AVR-83]
NX2*07****CITY***[AVR-85]
NX2*15****ANRANGE***[AVR-81]
NX2*39****AHN***[AVR-80]
NX2*40****SASS***[AVR-70]
NX2*59****SAPR***[AVR-61]
NX2*61****SASF***[AVR-64]
NX2*62****SATH***[AVR-69]
NX2*96****HNRANGE***[AVR-66]
NX2*__***LD1***__[AVR-71]****LV1***[AVR-72]
NX2*__***LD2***__[AVR-73]****LV2***[AVR-74]
NX2*__***LD3***__[AVR-75]****LV3***[AVR-76]
REF*UV****ARANGEIND***[AVR-82]**ARANGEIND*
REF*UV****RANGEIND***[AVR-67]**RANGEIND*

Multiple CALA Match Address Section

[PO1 Loop for Multiple CALA Match when ***ADDRES***[AVR-7] = "E" (Multiple CALA)]

PO1*n*1*EA***ZZ**CALAMATCH* [PO1 Loop may repeat ***MCNUM***[AVR-91] times]
N1*IT** MULTIPLECALAMATCH*
N4*****RJ****CALA***[AVR-92]

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

4.6 Data Dictionary

4.6.1 850 Address Validation Query (850AVQ)

Functional Group ID=PO

Introduction:

The 850 AVQ will be used by the Co-Provider to initiate an Address Validation Query to Qwest.

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

Notes:

This 850 Transaction includes the mapping for Address Validation 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 - Address Search	M	1		n1
	0180	SI	Service Characteristic Identification	O	>1		
			LOOP ID - N1			200	
	3500	N1	Name	O	1		
	3600	N2	Additional Name Information	O	2		
	3800	N4	Geographic Location	O	1		
	3850	NX2	Location ID Component	O	>1		
	4050	SI	Service Characteristic Identification	O	>1		

Summary:

Pos.	Seg.		Req.		Loop	Notes and

	No.	ID	Name	Des.	Max.Use	Repeat	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 NUMBER

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 (AVQ-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 (AVQ-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} (AVQ-3)*D/TSENT{HHMM} (AVQ-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 (AVQ-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} (AVQ-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 (AVQ-5)*IQ*TXTYP (AVQ-4)

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	**M**	**AN 2/2**
M **SI03**	**234**	**Product/Service ID** Identifying number for a product or service TXACT (AVQ-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 (AVQ-4) = Transaction Type	**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 (AVQ-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 (AVQ-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 (AVQ-7)

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

Segment: **PO1** **Baseline Item Data - Address Search**
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*SEARCHTYP (AVQ-6)

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 SEARCHTYP (AVQ-6) = Search Type	**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(AVQ-35) [SI Segment is present only if SEARCHTYP(AVQ-6) is "T"]

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 (AVQ-35) = 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. Attributes	Data Element	Name		
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual IT Installation on Site	**M**	**ID 2/3**
	N102	**93**	**Name** Free-form name "ADDRESS"	**X**	**AN 1/60**

Segment: **N2** **Additional Name Information**
Position: 3600
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify additional names
Syntax Notes:
Semantic Notes:
Comments:
Notes: N2*LNAME(AVQ-29)*LNAME(AVQ-29)(Continued) [N2 Segment is present only if SEARCHTYP(AVQ-6) is "A"]

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	**N201**	**93**	**Name** Free-form name LNAME(AVQ-29) = Listed Name	**M**	**AN 1/60**
	N202	**93**	**Name** Free-form name LNAME(AVQ-29) = Listed Name (Continued)	**O**	**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 (AVQ-32)*ZIP (AVQ-33)**RJ*CALA (AVQ-34)

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 (AVQ-32) = 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 (AVQ-33) = 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 (AVQ-34) = 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 (AVQ-11)
NX2*02*SASN (AVQ-14)
NX2*03*SASD (AVQ-13)
NX2*05*BOX (AVQ-28)
NX2*06*ROUTE (AVQ-27)
NX2*07*CITY (AVQ-31)
NX2*39*AHN (AVQ-26)
NX2*40*SASS (AVQ-16)
NX2*59*SAPR (AVQ-10)
NX2*61*SASF (AVQ-12)
NX2*62*SATH (AVQ-15)
NX2*LD1 (AVQ-17)*LV1 (AVQ-18)
NX2*LD2 (AVQ-19)*LV2 (AVQ-20)
NX2*LD3 (AVQ-21)*LV3 (AVQ-22)

Data Element Summary

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

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

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

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

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

			13	Apartment Number		
			14	Suite Number		
			30	Pier The pier at which a ship or boat is docked		
			32	Floor A particular floor or level of a building		
			34	Lot A particular lot or piece of land		
			35	Room A walled room or partitioned area of a building		
			36	Slip The slip or location on a pier at which a ship or boat is docked		
			37	Unit A unit or separate structure		
			39	Unstructured Property		
			40	Street Suffix		
			59	Street Number Low		
			61	Street Number Fraction		
			62	Street Name Suffix		
			63	Secondary Unit Identifier		
M	**NX202**	**166**	**Address Information**		**M**	**AN 1/55**
			Address information SANO (AVQ-11) = Service Address Number SASN (AVQ-14) = Service Address Street Name SASD (AVQ-13) = Service Address Street Directional Prefix BOX (AVQ-28) = Box Number ROUTE (AVQ-27) = Rural Route CITY (AVQ-31) = City AHN (AVQ-26) = Assigned House Number SASS (AVQ-16) = Service Address Street Directional Suffix SAPR (AVQ-10) = Service Address Number Prefix SASF (AVQ-12) = Service Address Number Suffix SATH (AVQ-15) = Service Address Street Type LV1 (AVQ-18) = Location Value 1 LV2 (AVQ-20) = Location Value 2 LV3 (AVQ-22) = Location Value 3			

Segment: **SI** **Service Characteristic Identification**
Position: 4050
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify service characteristic data
Syntax Notes:
1 If either SI04 or SI05 is present, then the other is required.
2 If either SI06 or SI07 is present, then the other is required.
3 If either SI08 or SI09 is present, then the other is required.
4 If either SI10 or SI11 is present, then the other is required.
5 If either SI12 or SI13 is present, then the other is required.
6 If either SI14 or SI15 is present, then the other is required.
7 If either SI16 or SI17 is present, then the other is required.
8 If either SI18 or SI19 is present, then the other is required.
9 If either SI20 or SI21 is present, then the other is required.
Semantic Notes:
Comments:
1 SI01 defines the source for each of the service characteristics qualifiers.
Notes: SI*TI*AF*AFT (AVQ-9)

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 (AVQ-9) = Address Format Type	**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*No of Segments*TRAN SET CONTROL #

Data Element Summary

	Ref. Des.	Data Element	Name		
	Attributes				
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		

4.6.2 855 Address Validation Response (855AVR)

Functional Group ID=PR

Introduction:

The 855AVR will be used by Qwest to respond to an Address Validation 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 Address Validation 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 Match	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 - Exact Match	O	1		n2
	0180	SI	Service Characteristic Identification	O	>1		
			LOOP ID - QTY			>1	
	3000	QTY	Quantity	O	1		

		LOOP ID - QTY			>1	
3000	QTY	Quantity	O	1		
		LOOP ID - QTY			>1	
3000	QTY	Quantity	O	1		
3020	SI	Service Characteristic Identification	O	>1		
		LOOP ID - N9			1000	
3500	N9	Reference Identification	O	1		
3600	MTX	Text	O	>1		
		LOOP ID - N9			1000	
3500	N9	Reference Identification	O	1		
3600	MTX	Text	O	>1		
		LOOP ID - N9			1000	
3500	N9	Reference Identification	O	1		
3600	MTX	Text	O	>1		
		LOOP ID - N9			1000	
3500	N9	Reference Identification	O	1		
3600	MTX	Text	O	>1		
		LOOP ID - N1			200	
3700	N1	Name	O	1		
3900	N3	Address Information	O	2		
4000	N4	Geographic Location	O	1		
4050	NX2	Location ID Component	O	>1		
		LOOP ID - N1			200	
3700	N1	Name	O	1		
4050	NX2	Location ID Component	O	>1		
		LOOP ID - SLN			>1	
4900	SLN	Subline Item Detail	O	1		
5000	SI	Service Characteristic Identification	O	>1		
		LOOP ID - N1			10	
5760	N1	Name	O	1		
5780	N2	Additional Name Information	O	2		
		LOOP ID - PO1			100000	
0100	PO1	Baseline Item Data - Near/Multiple Match	O	1		n3
		LOOP ID - N9			1000	
3500	N9	Reference Identification	O	1		
3600	MTX	Text	O	>1		
		LOOP ID - N1			200	
3700	N1	Name	O	1		
3800	N2	Additional Name Information	O	2		
4000	N4	Geographic Location	O	1		
4050	NX2	Location ID Component	O	>1		
4100	REF	Reference Identification	O	12		
		LOOP ID - PO1			100000	

	0100	PO1	Baseline Item Data - CALA Match	O	1		n4
			LOOP ID - N1			200	
	3700	N1	Name	O	1		
	4000	N4	Geographic Location	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		n5
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. 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**	**M**	**ID 3/3**
			Code uniquely identifying a Transaction Set 855 Purchase Order Acknowledgment		
M	**ST02**	**329**	**Transaction Set Control Number**	**M**	**AN 4/9**
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		

Segment: **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 (AVR-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 (AVR-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*ADDRES (AVR-7)*ADDRES

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 ADDRES (AVR-7) = Address Response	**X**	**AN 1/30**
	REF03	**352**	**Description** A free-form description to clarify the related data elements and their content "ADDRES"	**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:
855~9,4,PAM*87*NMNUM (AVR-9)*EA
PAM*OC*MCNUM (AVR-91)*EA
PAM*02*WTNQ (AVR-7a)

Data Element Summary

	Ref. Des.	Data Element	Name			
	Attributes					
	PAM01	**673**	**Quantity Qualifier**		**X**	**ID 2/2**
			Code specifying the type of quantity			
			02	Cumulative Quantity		
			87	Quantity Received		
			OC	Order Count		
	PAM02	**380**	**Quantity**		**X**	**R 1/15**
			Numeric value of quantity			
			NMNUM (AVR-59) = Near Match Number MCNUM (AVR-91) = Multiple CALA Match Number WTNQ (AVR-7a) = WTN Quantity			
	PAM03	**C001**	**Composite Unit of Measure**		**X**	
			To identify a composite unit of measure (See Figures Appendix for examples of use)			
M	**C00101**	**355**	**Unit or Basis for Measurement Code**		**M**	**ID 2/2**
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken			
			EA	Each		

Segment: **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} (AVR-3)*D/TSENT{HHMM} (AVR-3)

Data Element Summary

	Ref. Des. Attributes	Data Element	Name		
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 (AVR-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} (AVR-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 (AVR-5)*IQ*TXTYP (AVR-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 (AVR-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 (AVR-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 (AVR-1)

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		
			78 Service Requester		
	N102	**93**	**Name**	**X**	**AN 1/60**
			Free-form name		
			CCNA (AVR-1) = Customer Carrier Name Abbreviation		

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 (AVR-6)

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

Segment: **PO1** **Baseline Item Data - Bad Match**
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 ADDRES (AVR-7) = "A", "B", "C", or "D" (Messages)]

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 (AVR-93)*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 03 Discreet Quantity - Rejected Material		
	QTY02	**380**	**Quantity**	**X**	**R 1/15**
			Numeric value of quantity ERRNUM (AVR-93) = Number of Errors		
	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: **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 (AVR-94)*ERR [N9 Loop may repeat ERRNUM (AVR-93) 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 (AVR-94) = 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 (AVR-95)

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
MTX02	**1551**	**Message Text** To transmit large volumes of message text ERRMESG (AVR-95) = Error Message	**X**	**AN 1/4096**

Segment: **PO1** **Baseline Item Data - Exact Match**
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*EXACT [PO1 Loop will be used if ADDRES (AVR-7) = "A" (Exact Match)]

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 "EXACT"	**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*IC*SITEID (AVR-53)*TL*TTA (AVR-54)*LS*LSO (AVR-55) *RS*RATEZONE (AVR-56)

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 IC Interexchange Carrier Serving Office	**M**	**AN 2/2**
M	**SI03**	**234**	**Product/Service ID** Identifying number for a product or service SITEID (AVR-53) = Site Identification	**M**	**AN 1/48**
	SI04	**1000**	**Service Characteristics Qualifier** Code from an industry code list qualifying the type of service characteristics TL Terminating Location	**X**	**AN 2/2**
	SI05	**234**	**Product/Service ID** Identifying number for a product or service TTA (AVR-54) = Traffic Terminating Area	**X**	**AN 1/48**
	SI06	**1000**	**Service Characteristics Qualifier** Code from an industry code list qualifying the type of service characteristics LS Local Serving Office	**X**	**AN 2/2**
	SI07	**234**	**Product/Service ID** Identifying number for a product or service LSO (AVR-55) = Local Service Office	**X**	**AN 1/48**
	SI08	**1000**	**Service Characteristics Qualifier**	**X**	**AN 2/2**

		Code from an industry code list qualifying the type of service characteristics RS Rate Schedule		
SI09	**234**	**Product/Service ID** Identifying number for a product or service RATEZONE (AVR-56) = RATE ZONE	**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*AG*ALTADDNUM (AVR-37a)*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 AG Number of End Users Number of participating users		
	QTY02	**380**	**Quantity**	**X**	**R 1/15**
			Numeric value of quantity ALTADDNUM (AVR-37a) = Alternate Addresses 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: **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*NB*PNARMKNUM (AVR-50)*EA

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**QTY01**	**673**	**Quantity Qualifier** Code specifying the type of quantity NB Number of Units (Housing)	**M**	**ID 2/2**
	QTY02	**380**	**Quantity** Numeric value of quantity PNARMKNUM (AVR-50) =Number of Primary Number Address Remarks	**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: **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*SWTYPNUM (AVR-57)*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 01 Discrete Quantity		
	QTY02	**380**	**Quantity**	**X**	**R 1/15**
			Numeric value of quantity SWTYPNUM (AVR-57) = Switch Type 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: **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*SB*SWTYP (AVR-58) [SI Segment may repeat SWTYPNUM (AVR-57) times]

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 SB Switch Type	**M**	**AN 2/2**
M	**SI03**	**234**	**Product/Service ID** Identifying number for a product or service SWTYP (AVR-58) = Switch Type	**M**	**AN 1/48**

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*L1*LOC*AVR

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 LOC Location Instructions	**X**	**AN 1/30**
	N903	**369**	**Free-form Description** Free-form descriptive text "AVR"	**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**DESCRIPTIVE (AVR-48)

Data Element Summary

Ref. Des.	Data Element	Name		Attributes
MTX02	**1551**	**Message Text** To transmit large volumes of message text DESCRIPTIVE (AVR-48) = Descriptive Address	**X**	**AN 1/4096**

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*L1*PNARMK [N9 Loop repeats PNARMKNUM (AVR-50) 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 "PNARMK"	**X**	**AN 1/30**

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**PNARMK (AVR-51)

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
MTX02	**1551**	**Message Text** To transmit large volumes of message text PNARMK (AVR-51) = Primary Number Address Remarks:	**X**	**AN 1/4096**

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*L1*SLRMK

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 "SLRMK"	**X**	**AN 1/30**

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**SLRMK (AVR-52)

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
MTX02	**1551**	**Message Text** To transmit large volumes of message text SLRMK (AVR-52) = Service Location Remarks	**X**	**AN 1/4096**

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*L1*SAGMESS

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 "SAGMESS"	**X**	**AN 1/30**

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**SAGMESS (AVR-37)

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
MTX02	**1551**	**Message Text** To transmit large volumes of message text SAGMESS (AVR-37) = Street Address Guide Message	**X**	**AN 1/4096**

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. Attributes	Data Element	Name		
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual IT Installation on Site	**M**	**ID 2/3**
	N102	**93**	**Name** Free-form name "ADDRESS"	**X**	**AN 1/60**

Segment: **N3** **Address Information**
Position: 3900
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes: N3*ALTERNATE STREET (AVR-49)*ALTERNATE STREET (AVR-49) (Continued)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
M	**N301**	**166**	**Address Information** Address information ALTERNATE STREET (AVR-49) = Alternate Street	**M**	**AN 1/55**	
	N302	**166**	**Address Information** Address information ALTERNATE STREET (AVR-49) = Alternate Street (Continued)	**O**	**AN 1/55**	

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 (AVR-32)*ZIP (AVR-33)**RJ*CALA (AVR-34)

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 (AVR-32) = 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 (AVR-33) = 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 (AVR-34) = Customer Address Location Area	**O**	**AN 1/30**

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 (AVR-11)
NX2*02*SASN (AVR-15)
NX2*03*SASD (AVR-14)
NX2*05*BOX (AVR-29)
NX2*06*ROUTE (AVR-28)
NX2*07*CITY (AVR-31)
NX2*39*AHN (AVR-27)
NX2*40*SASS (AVR-17)
NX2*59*SAPR (AVR-10)
NX2*61*SASF (AVR-13)
NX2*62*SATH (AVR-16)
NX2*LD1 (AVR-18)*LV1 (AVR-19)
NX2*LD2 (AVR-20)*LV2 (AVR-21)
NX2*LD3 (AVR-22)*LV3 (AVR-23)

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 (AVR-18) = Location Designator 1
13 = (DWS : APT)
34 = (DWS : LOT)
35 = (DWS : RM)
36 = (DWS : SLIP)
37 = (DWS : UNIT)
14 = (DWS : SUIT)

LD2 (AVR-20) = Location Designator 2
32 = (DWS : FLR)

LD3 (AVR-22) = 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 (AVR-11) = Service Address Number SASN (AVR-15) = Service Address Street Name SASD (AVR-14) = Service Address Street Directional Prefix BOX (AVR-29) = Box Number ROUTE (AVR-28) = Rural Route CITY (AVR-31) = City AHN (AVR-27) = Assigned House Number SASS (AVR-17) = Service Address Street Directional Suffix SAPR (AVR-10) = Service Address Number Prefix SASF (AVR-13) = Service Address Number Suffix SATH (AVR-16) = Service Address Street Type LV1 (AVR-19) = Location Value 1 LV2 (AVR-21) = Location Value 2 LV3 (AVR-23) = Location Value 3			

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*DT*SUPPMATCH [N1 Loop may repeat ALTADDNUM (AVR-37a) times]

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 DT Destination Terminal	**M**	**ID 2/3**
	N102	**93**	**Name** Free-form name "SUPPMATCH"	**X**	**AN 1/60**

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*LD1 (AVR-38)*LV1 (AVR-39)
NX2*LD2 (AVR-40)*LV2 (AVR-41)
NX2*LD3 (AVR-42)*LV3 (AVR-43)

Data Element Summary

Ref. Des. Attributes	Data Element	Name		
M NX201	**1106**	**Address Component Qualifier**	**M**	**ID 2/2**
		Code qualifying the type of address component		
		LD1 (AVR-38) = Location Designator 1 13 = (DWS : APT) 34 = (DWS : LOT) 35 = (DWS : RM) 36 = (DWS : SLIP) 37 = (DWS : UNIT) 14 = (DWS : SUIT) LD2 (AVR-40) = Location Designator 2 32 = (DWS : FLR) LD3 (AVR-42) = Location Designator 3 12 = (DWS : BLDG) 63 = (DWS: WNG) 30 = (DWS: PIER)		
		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		

			63	Secondary Unit Identifier		
M	**NX202**	**166**	**Address Information**		**M**	**AN 1/55**
			Address information LV1 (AVQ-39) = Location Value 1 LV2 (AVQ-41) = Location Value 2 LV3 (AVQ-43) = Location Value 3			

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*WTN*n*A*1*EA [SLN Loop may repeat WTNQ (AVR-7 times]

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**SLN01**	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set "WTN"	**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*WT*WTN (AVR-7b)
SI*TI*W1*WTNSTAT (AVR-7c)

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		
			W1 WTN Status		
			WT Working Telephone Number		
M	**SI03**	**234**	**Product/Service ID**	**M**	**AN 1/48**
			Identifying number for a product or service		
			WTN (AVR-7b) = Working Telephone Number WTNSTAT (AVR-7c) = WTN Status		

Segment: **N1** **Name**
Position: 5760
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*WTNLISTEDNAME

Data Element Summary

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

Segment: **N2** **Additional Name Information**
Position: 5780
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify additional names
Syntax Notes:
Semantic Notes:
Comments:
Notes: N2*LNAME (AVR-7d)*LNAME (AVR-7d)(Continued)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
M	**N201**	**93**	**Name** Free-form name LNAME (AVR-7d) = Listed Name	**M**	**AN 1/60**	
	N202	**93**	**Name** Free-form name LNAME (AVR-7d) = Listed Name (Continued)	**O**	**AN 1/60**	

Segment: **PO1** **Baseline Item Data - Near/Multiple Match**
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*MULTIPLENEARMATCH [PO1 Loop may repeat NMNUM (AVR-59) times]
[PO1 Loop for Multiple Match when ADDRES (AVR-7) = "D" (Multiple Match)]
[PO1 Loop for Near Match when ADDRES (AVR-7) = "C" (Near Match)]

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 "MULTIPLENEARMATCH"	**X**	**AN 1/48**

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*L1*LOC*AVR

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 LOC Location Instructions	**X**	**AN 1/30**
	N903	**369**	**Free-form Description** Free-form descriptive text "AVR"	**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**DESCRIPTIVE (AVR-89)

Data Element Summary

Ref. Des.	Data Element	Name		Attributes
MTX02	**1551**	**Message Text** To transmit large volumes of message text DESCRIPTIVE (AVR-89) = Descriptive Address	**X**	**AN 1/4096**

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*NEARMULTIPLE

Data Element Summary

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

Segment: **N2** **Additional Name Information**
Position: 3800
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify additional names
Syntax Notes:
Semantic Notes:
Comments:
Notes: N2*LNAME (AVR-90)*LNAME (AVR-90)(Continued)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
M	**N201**	**93**	**Name** Free-form name LNAME (AVR-90) = Listed Name	**M**	**AN 1/60**	
	N202	**93**	**Name** Free-form name LNAME (AVR-90) = Listed Name (Continued)	**O**	**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 (AVR-86)*ZIP (AVR-87)**RJ*CALA (AVR-88)

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 (AVR-86) = 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 (AVR-87) = 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 (AVR-88) = Customer Address Location Area	**O**	**AN 1/30**

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 (AVR-62)
NX2*02*SASN (AVR-68)
NX2*03*SASD (AVR-65)
NX2*05*BOX (AVR-84)
NX2*06*ROUTE (AVR-83)
NX2*07*CITY (AVR-85)
NX2*15*ANRANGE (AVR-81)
NX2*39*AHN (AVR-80)
NX2*40*SASS (AVR-70)
NX2*59*SAPR (AVR-61)
NX2*61*SASF (AVR-64)
NX2*62*SATH (AVR-69)
NX2*96*HNRANGE (AVR-66)
NX2*LD1 (AVR-71)*LV1 (AVR-72)
NX2*LD2 (AVR-73)*LV2 (AVR-74)
NX2*LD3 (AVR-75)*LV3 (AVR-76)

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 (AVR-71) = Location Designator 1
13 = (DWS : APT)
34 = (DWS : LOT)
35 = (DWS : RM)
36 = (DWS : SLIP)
37 = (DWS : UNIT)
14 = (DWS : SUIT)

LD2 (AVR-73) = Location Designator 2
32 = (DWS : FLR)

LD3 (AVR-75) = 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		
			15	Unstructured Street Address		
			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		
			96	Range A north-south strip of townships, each six miles square, numbered east and west, from a specified meridian in a U.S. public land survey		
M	**NX202**	**166**	**Address Information**		**M**	**AN 1/55**
			Address information SANO (AVR-62) = Service Address Number SASN (AVR-68) = Service Address Street Name SASD (AVR-65) = Service Address Street Directional Prefix BOX (AVR-84) = Box Number ROUTE (AVR-83) = Rural Route CITY (AVR-85) = City ANRANGE (AVR-81) = Account Number Range AHN (AVR-80) = Assigned House Number SASS (AVR-70) = Service Address Street Directional Suffix SAPR (AVR-61) = Service Address Number Prefix SASF (AVR-64) = Service Address Number Suffix SATH (AVR-69) = Service Address Street Type HNRANGE (AVR-66) = House Number Range LV1 (AVR-72) = Location Value 1 LV2 (AVR-74) = Location Value 2 LV3 (AVR-76) = Location Value 3		

Segment: **REF** **Reference Identification**
Position: 4100
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 12
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*UV*ARANGEIND (AVR-82)*ARANGEIND
REF*UV*RANGEIND (AVR-67)*RANGEIND

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification UV Range Number An identifier corresponding to a range within a township	**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 ARANGEIND (AVR-82) = Account Number Range Indicator RANGEIND (AVR-67) = Range Indicator	**X**	**AN 1/30**
	REF03	**352**	**Description** A free-form description to clarify the related data elements and their content "ARANGEIND" "RANGEIND"	**X**	**AN 1/80**

Segment: **PO1** **Baseline Item Data - CALA Match**
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*CALAMATCH [PO1 Loop may repeat MCNUM (AVR-91) times]
[PO1 Loop for Multiple CALA Match when ADDRES (AVR-7) = "E" (Multiple CALA)]

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 "CALAMATCH"	**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*MULTIPLECALAMATCH

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 "MULTIPLECALAMATCH"	**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*****RJ*CALA (AVR-92)

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
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 (AVR-92) = Customer Address Location Area	**O**	**AN 1/30**

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*No of Segments*TRAN SET CONTROL #

Data Element Summary

	Ref. Des.	Data Element	Name		
	Attributes				
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		