Virginia

Implementation Standard

For
Electronic **D**ata **I**nterchange

TRANSACTION SET

820

Payment Order/Remittance Advice
Ver/Rel 004010

Summary of Changes

August 27, 2001 Version 2-1FINAL	Issue final version 2.1 for 1/1/2002 Open Access
September 27, 2001 Version 2-11FINAL	RMR05 and RMR06 were transposed. RMR05 is the original invoice amount before any discounts. RMR06 is the negotiated discount amount. Minor cosmetic changes were also corrected. Added example (1A) to show purchase of receivables option. Updated to UIG standards.
December 1, 2002 Version 2.2 FINAL	Added clarifying note to N1*PR and N1*PE for Supplier Consolidated Billing.

Notes

Use of 820 Transaction	Use of 820 transaction is required for LDC Consolidated Billing and Optional for CSP Consolidated Billing. Please refer to the individual LDC Supplier Coordination Tariff to determine the acceptable payment methods for CSP Consolidated Billing.
ASC X12 Version	When sending the remittance advice separate from the payment, you are required to use the ASC X12 Version 004010 as documented in this standard. When making payments through the banking system, you may use whatever ASC X12 version that your bank will accept, no lower than ASC X12 Version 003030.
	You must have a relationship with your bank to receive remittance information electronically. This relationship may determine what version of the ASC X12 standards you will receive. While a sender may use version 004010, the bank may only be capable of supporting a lower version. The data contained in the segments has not changed with any versions above 003030.
Use of CCD+ Transaction	VAEDT requires that if the payment and remittance are sent separately and the payment is made electronically, a CCD+ transaction will be used. The CCD+ was chosen because of its ability to carry an addenda record that can be used to reassociate the payment and remittance advice and it is inexpensive.
	If you currently have a relationship with your bank for sending EDI 820 CCD+ transactions, you will continue to use the process you have in place. The standard you are currently using is negotiable between you and your bank and does not affect your trading partner because they do not see the data in the format you send it. The value of the CCD+ is the addenda record. The addenda record is used to reassociate the payment and remittance; how that is accomplished is up to the receiver and their bank. Those who do not have an EDI 820 relationship with their bank for CCD+ transactions, may use this as a starting point for discussions with their bank. The bank may in fact have specific requirements that you must adhere to. VAEDT's only requirement is that the trace number be passed on with the payment instruction and also be present in the remittance advice.
Reassociation	If a CCD+ transaction is sent through the banking system without remittance information it must have a TRN segment-with a trace number. This number will also appear on the TRN of the remittance advice sent directly to the trading partner.
Addenda Record	The addenda record is built from -information contained in the segment(s) for the payment. This same information will also appear in the TRN segment of the remittance advice.
Receiver	If the remittance is going through a bank, you will receive a minimum of the segments presented in the Standard. Value Added Banks may include additional segments to help the receiver in the reconciliation and payment application process. For instance, Bank Y may add…

- DTM*234 segment that provides the actual date the settlement took place
- PER segment with contact information for Bank Y ACH Operations
- PER segment with contact information for Bank Y EDI Operations
- REF*TN with the ACH trace number

Other banks may provide information to further identify the payee in addition to some of the items above.

The important thing to remember is that you need to check with your bank to determine exactly what value added services they provide to you as a receiver of remittance data.

Schedule Testing with Bank	In addition to testing with your trading partner, you must allow sufficient time to test with your bank. Most banks require setup/lead time to implement new trading partners.
Prenotes	It is recommended that all new trading partners send/receive a prenote in advance of moving live payments.

This Standard is presented from the perspective of the sender initiating payment instruction/remittance advice.

Instructions for Handling a Negative Remittance

There are 2 options presented below that may be followed for handling a negative remittance. Each "sending" party should always follow one option – they should not switch options without informing their business partners.

Option 1:

The 820 payment instruction and remittance advice will be sent on a daily basis and will include all applicable adjustments as outlined in the Standard as long as the adjustments are not larger than the payments. If the adjustments are larger than the payments (creating a negative remittance advice), the remittance advice will be held by the sender for one business day with the expectation that additional payments due the next business day will offset the negative remittance amount.

If the negative remittance cannot be offset in one business day, the payer will contact the payee and arrange for the adjustment(s) causing the negative condition to be repaid to the payer. The payer will remove the offending adjustment(s) from the remittance advice, bring the remittance advice to a positive status and transmit the remittance advice to the payee.

Example:

Day 1: Utility X inadvertently transmits a misapplied payment of $500,000 to Supplier A.

Day 3: Utility X discovers the problem and reverses the $500,000 on the remittance advice that also details payments of $200,000 causing a negative remittance status:

- $500,000 – Reversal of misapplied payment
+ 200,000 – Payment items from Day 3
- $300,000   Negative net amount Day 3

Utility X holds the remittance advice for one business day to accumulate additional payments to Supplier A with the expectation that additional payments will offset the negative balance.

Day 4: Utility X accumulates an additional $100,000 to remit to Supplier A, but the net is still negative:

- $300,000 – Negative net amount from Day 3
+ $100,000 – Payment items from Day 4
- $200,000   Negative net amount Day 4

At this point Utility X must notify Supplier A that $500,000 must be returned to Utility X because on Day 1 a payment was misapplied to Supplier A's account. Supplier A must, upon verification of the error, remit $500,000 immediately to Utility X.

Utility X must remove the -$500,000 that created the negative remittance condition and forward payments for Day 3 and 4 to Supplier A.

-$500,000 – Reversal of misapplied payment from Day 3
+ 200,000 – Payment items from Day 3
+ 100,000 – Payment items from Day 4
+ 500,000 – Removal of reversal of misapplied payment from Day 3
  $300,000   Remit to Supplier A

Option 2:   The 820 payment instruction and remittance advice will be sent on a daily basis and will include all applicable adjustments as outlined in the Standard as long as the adjustments are not larger than the payments. If the adjustments are larger than the payments (creating a negative remittance advice), the remittance advice will be transmitted with a zero in the BPR02.

The BPR02 will contain either the total positive amount being moved through the ACH system, which will add up to all the detail line items (RMRs), or zero if the total of the detail line items is negative.

LDC Definition: The term LDC (Local Distribution Company) in this document refers to the utility.

CSP Definition: The terms CSP (Competitive Service Provider) and ESP (Energy Service Provider) are currently interchangeable.

How to Use the Implementation Standard

Segment: **REF** **Reference Identification**

This section is used to show the X12 Rules for this segment. You must look

Position:	030
Loop:	LIN
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To specify identifying information
Syntax Notes:	1 At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	Recommended by UIG
VA Use:	Must be identical to account number as it appears on the customer's bill, excluding punctuation (spaces, dashes, etc.). Significant leading and trailing zeros must be included.
	Request: Required
	Accept Response: Required
	Reject Response: Required
Example:	REF*12*2931839200

The "Notes:" section generally contains notes by the Utility Industry Group (UIG).

This section is used to show the individual State's Rules for implementation of this segment.

One or more examples.

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**
			Code qualifying the Reference Identification	
		12	Billing Account	
			LDC assigned account number for end use customer.	
Must Use	**REF02**	**127**	**Reference Identification**	**X AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

This column shows the use of each data element. If state rules differ, this will show "Conditional" and the conditions will be explained in the appropriate grayboxes.

These are X12 code descriptions, which often do not relate to the information we are trying to send. Unfortunately, X12 cannot keep up with our code needs so we often change the meanings of existing codes. See graybox for the UIG or state definitions.

This column shows the X12 attributes for each data element. Please refer to Data Dictionary for individual state rules.

M = Mandatory, O= Optional, X = Conditional

AN = Alphanumeric, N# = Decimal value, ID = Identification, R = Real

820 Payment Order/Remittance Advice
X12 Structure

Functional Group ID=RA

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
Must Use	010	ST	Transaction Set Header	M	1		
Must Use	020	BPR	Beginning Segment for Payment Order/Remittance Advice	M	1		
Recomm	035	TRN	Trace	O	1		c1
Must Use			LOOP ID - N1			>1	
	070	N1	Name	O	1		c2

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID – ENT			>1	
Must Use	010	ENT	Entity	M	1		n1, c3
			LOOP ID – RMR			>1	
Must Use	150	RMR	Remittance Advice Accounts Receivable Open Item Reference	M	1		c4
	170	REF	Reference Identification	O	>1		
	180	DTM	Date/Time Reference	O	>1		

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
Must Use	010	SE	Transaction Set Trailer	M	1		

Transaction Set Notes:

1. The ENT loop is for vendor or consumer third party consolidated payments.

Transaction Set Comments:

1. The TRN segment is used to uniquely identify a payment order/remittance advice.
2. The N1 loop allows for name/address information for the payer and payee which would be utilized to address remittance(s) for delivery.
3. ENT09 may contain the payee's accounts receivable customer number.
4. Loop RMR is for open items being referenced or for payment on account.

Appl Field	Field Name	Description	EDI Segment	Related EDI Qualifier	Data Type	Use
820-Payment Order/Remittance Advice - CTX Data Dictionary						
HEADER LEVEL REMITTANCE INFORMATION						
1	Transaction Handling Code	"C" = Payment accompanies remittance advice "I" = Remittance Information Only "P" = Prenote	BPR01		X(1)	M
2	Monetary Amount	Will contain the total positive payment amount being moved through the ACH system, which will add up to all your detail line items (RMRs). Refer to Implementation Standard on how to handle a negative remittance. Zero is not considered a negative remittance.	BPR02		9(10).9(2)	M
3	Credit/Debit Flag Code	Payment and Remittance Advice will always be a credit: "C" - Credit	BPR03		X(1)	M
4	Payment Method Code	Code identifying the method for transmitting the payment. "ACH" - Automated Clearing House "CHK" - Check	BPR04		X(3)	M
5	Payment Format Code	Code identifying payment format to be used. "CTX" - Corporate Trade Exchange "CCP" - Cash Concentration Disbursement "PBC" - Commercial/Corporate Check	BPR05		X(10)	M
6	(DFI) ID Number Qualifier	DFI ID Number Qualifier "01" - ABA Transit Routing Number	BPR06		X(2)	C - BANK
7	(DFI) ID Number	Payer's Financial Institution	BPR07		X(12)	C - BANK
8	Account Number Qualifier	Code indicating type of account "DA" - Demand Deposit "SG" - Savings	BPR08		X(3)	C - BANK
9	Account Number	Payer's Financial Institution Account Number	BPR09		X(35)	C - BANK
10	Originating Company Identifier	A unique identifier designating the company initiating the funds transfer instructions.	BPR10		X(10)	C - BANK
11	Originating Company Supplemental Code	A code defined between the originating company and the originating depository financial institution (ODFI) that uniquely identifies the company initiating the transfer instructions	BPR11		X(9)	C - BANK
12	(DFI) ID Number Qualifier	DFI ID Number Qualifier "01" - ABA Transit Routing Number	BPR12		X(2)	C - BANK
13	(DFI) ID Number	Payee's financial institution	BPR13		X(12)	C - BANK

14	Account Number Qualifier	Code indicating type of account "DA" - Demand Deposit "SG" - Savings	BPR14		X(3)	C - BANK
15	Account Number	Payee's financial institution account number	BPR15		X(35)	C - BANK
16	Date	Payer's Intended Settlement Date is the date the payment is expected to clear ACH (CCYYMMDD format).	BPR16		9(8)	M
17	Business Function Code	Code identifying the business reason for this payment	BPR17		X(3)	C - BANK
18	Trace Type Code	Trace Code is the code identifying which transaction is being referenced. "1" - Current Transaction Trace Number Payment and Remittance Information Together. "3" - Financial Reassociation Number The matching of payment and remittance information originated separately. Remittance Information Only.	TRN01		9	M
19	Reference Identification	Unique trace number identifying this remittance advice used to reassociate the remittance advice to the payment if the payment and remittance advice are sent separately.	TRN02	TRN01 = "1"	X(30)	M
20	Entity Identifier Code	Initiator of Payment Order/Remittance Advice "PR" Payor	N101		X(3)	M
21	Name	Payer's Name	N102	N101 = "PR"	X(60)	M
22	Identification Code Qualifier	"1" - DUNS Number, Dun & Bradstreet "9" - DUNS +4, DUNS Number with four Character Suffix	N103		X(2)	M
23	Identification Code	Payer's DUNS Number or DUNS+4 Number	N104	N101 = "PR"	X(13)	M
24	Entity Identifier Code	Initiator of Payment Order/Remittance Advice "PE" Payee	N101		X(3)	M
25	Name	Payee's Name	N102	N101 = "PE"	X(60)	M
26	Identification Code Qualifier	"1" - DUNS Number, Dun & Bradstreet "9" - DUNS +4, DUNS Number with four Character Suffix	N103		X(2)	M
27	Identification Code	Payee's DUNS Number or DUNS+4 Number	N104	N101 = "PE"	X(13)	M
PAYMENT LINE ITEM LOOP						
28	Assigned Number	Number assigned for differentiation within a transaction set.	ENT01		9(6)	M
29	Reference Identification Qualifier	"12" - LDC-assigned account number for the end use customer "IK" – Invoice Number from the BIG02 of the 810 Invoice (AEP Only)	RMR01		X(2)	M
30	Reference Identification	LDC Account Number for the end use customer	RMR02	RMR01 = "12"	X(30)	M

31	Reference Identification	Invoice Number from the BIG02 of the most current 810 Invoice from the supplier (AEP Only)	RMR02	RMR01 = "IK"	X(30)	M
32	Payment Action Code	"PO" - Payment on Account "AJ" - Adjustment	RMR03		X(2)	C
33	Monetary Amount	Total Dollar Amount adjusted or paid for this customer's account. This amount is summed to the BPR02, unless the total of the RMRs is negative, in which case see "Notes".	RMR04		-9(10).9(2)	M
34	Monetary Amount	Original invoice amount (used if purchasing receivables at discounted rate).	RMR05		-9(10).9(2)	C
35	Monetary Amount	Negotiated discount amount. If purchasing receivables. RMR05 – RMR06 should equal RMR04 (used if purchasing receivables at a discount rate)	RMR06		-9(10).9(2)	C
36	Adjustment Reason Code	Adjustment reason code is the code indicating reason for debit or credit memo or adjustment to invoice, debit or credit memo, or payment. "CS" = Adjustment "IF" = Insufficient Funds "26" = Cancelled Invoice "72" = Returned Items	RMR07		X(2)	C
37	Monetary Amount	Monetary Amount is the adjustment amount. This amount should be signed if negative. For an adjustment to this current payment, the amount in RMR04 is the result after the adjustment was applied; i.e., net of the adjustment. For an adjustment to a previous payment, the amount in RMR04 is to be the same as the amount in this RMR08.	RMR08		-9(10).9(2)	C
38	Reference Identification Qualifier	"11" - CSP-assigned customer account # "45" - LDC's previous account # for customer "Q5" - AEP assigned service delivery identification number "6O" - Unique cross reference number from 867 (echoed on 810)	REF01		X(2)	M
39	Reference Identification	CSP Account Number Customer Account Number assigned by CSP	REF02	REF01 = "11"	X(30)	M
40	Reference Identification	Old Account Number which is the previous LDC Account Number	REF02	REF01 = "45"	X(30)	M

41	Description	AEP SDID	REF03	REF01 = "Q5"	X(80)	M
42	Cross Reference Number	Unique number to cross-reference 867, 810 and 820 transactions	REF02	REF01="6O"	X(30)	M
43	Date/Time Qualifier	"809" - Posted	DTM01		X(2)	M
44	Date	Date the payment was posted by the billing party.	DTM02	DTM01 = "809"	9(8)	M

Segment:	**ST** **Transaction Set Header**
Position:	010
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).
Comments:	
VA Use:	Required
Example:	ST*820*000000001

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes	
Must Use	ST01	143	**Transaction Set Identifier Code**	**M**	**ID 3/3**
			Code uniquely identifying a Transaction Set		
			820 Payment Order/Remittance Advice		
Must Use	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:	**BPR** Beginning Segment for Payment Order/Remittance Advice
Position:	020
Loop:	
Level:	Heading
Usage:	Mandatory
Max Use:	1
Purpose:	To indicate the beginning of a Payment Order/Remittance Advice Transaction Set and total payment amount, or to enable related transfer of funds and/or information from payer to payee to occur

Syntax Notes:

1. If either BPR06 or BPR07 is present, then the other is required.
2. If BPR08 is present, then BPR09 is required.
3. If either BPR12 or BPR13 is present, then the other is required.
4. If BPR14 is present, then BPR15 is required.
5. If either BPR18 or BPR19 is present, then the other is required.
6. If BPR20 is present, then BPR21 is required.

Semantic Notes:

1. BPR02 specifies the payment amount.
2. When using this transaction set to initiate a payment, all or some of BPR06 through BPR16 may be required, depending on the conventions of the specific financial channel being used.
   BPR06 and BPR07 relate to the originating depository financial institution (ODFI).
3. BPR08 is a code identifying the type of bank account or other financial asset.
4. BPR09 is the account of the company originating the payment. This account may be debited or credited depending on the type of payment order.
5. BPR12 and BPR13 relate to the receiving depository financial institution (RDFI).
6. BPR14 is a code identifying the type of bank account or other financial asset.
7. BPR15 is the account number of the receiving company to be debited or credited with the payment order.
8. BPR16 is the date the originating company intends for the transaction to be settled (i.e., Payment Effective Date).
9. BPR17 is a code identifying the business reason for this payment.
10. BPR18, BPR19, BPR20 and BPR21, if used, identify a third bank identification number and account to be used for return items only.
11. BPR20 is a code identifying the type of bank account or other financial asset.

Comments:

Notes: Specific qualifiers used in data elements BPR01, BPR03, BPR04 and BPR05 need to be discussed and agreed upon between the originator and the originator's financial institution prior to using the transaction. In addition to testing with your trading partner, you must allow sufficient time to test with your bank. Most banks require setup/lead time to implement new trading partners. It is recommended that all new trading partners send/receive a prenote in advance of moving live payments.

VA Use: BPR01, BPR02, BPR03, BPR04, BPR05 and BPR16 are required. The other BPR elements may be sent when sending the 820 through the banking system. It is important that confidential information, such as bank account numbers, NOT be sent when the remittance is being sent separately .

In the event that your remittance advice sums to a negative amount, see the "Instructions for Handling a Negative Remittance" which appear in the Notes. The BPR is an instruction to the bank and the bank cannot move negative dollar amounts.

- These items may or may not be required by your bank. Different banks have different requirements related to the BPR elements. Your relationship with your bank will be the deciding factor on what information you will send and receive.

Example:	BPR*C*1000.00*C*ACH*CTX*01*031100047*DA*1234567***01*031201467*DA*7 654321*19990220 (Payment and Remittance Information) BPR*I*1000.00*C*ACH*CCP**********19990220 (Remittance Information Only)

Data Element Summary

	Ref. Des.	Data Element	Name		X12 Attributes
Must Use	**BPR01**	**305**	**Transaction Handling Code** Code designating the action to be taken by all parties	**M**	**ID 1/2**

C	Payment Accompanies Remittance Advice	
I	Remittance Information Only	
P	Prenotification of Future Transfers	

> It is recommended that all new trading partners send/receive a prenote in advance of moving live payments.

	Ref. Des.	Data Element	Name		X12 Attributes
Must Use	**BPR02**	**782**	**Monetary Amount** Monetary amount	**M**	**R 1/18**

> Will contain the total positive payment amount (including zero) being moved through the ACH system, which will add up to all your detail line items (RMRs). Please see Notes above for instructions on how to handle a negative remittance.

	Ref. Des.	Data Element	Name		X12 Attributes
Must Use	**BPR03**	**478**	**Credit/Debit Flag Code** Code indicating whether amount is a credit or debit	**M**	**ID 1/1**

C	Credit

	Ref. Des.	Data Element	Name		X12 Attributes
Must Use	**BPR04**	**591**	**Payment Method Code** Code identifying the method for the movement of payment instructions	**M**	**ID 3/3**

ACH	Automated Clearing House (ACH)
CHK	Check (for Remittance info only)

	Ref. Des.	Data Element	Name		X12 Attributes
Must Use	**BPR05**	**812**	**Payment Format Code** Code identifying the payment format to be used	**O**	**ID 1/10**

CCP	Cash Concentration/Disbursement plus Addenda (CCD+) (ACH)
	Payment Only
CTX	Corporate Trade Exchange (CTX) (ACH)
	Payment and Remittance Details
PBC	Commercial/Corporate Check

	Ref. Des.	Data Element	Name		X12 Attributes
Conditional	**BPR06**	**506**	**(DFI) ID Number Qualifier** Code identifying the type of identification number of Depository Financial Institution (DFI)	**X**	**ID 2/2**

01	ABA Transit Routing Number Including Check Digits (9 digits)

Conditional	BPR07	507	**(DFI) Identification Number** Depository Financial Institution (DFI) identification number	X	**AN 3/12**
			Payer's financial institution		
Conditional	BPR08	569	**Account Number Qualifier** Code indicating the type of account	O	**ID 1/3**
			DA Demand Deposit SG Savings		
Conditional	BPR09	508	**Account Number** Account number assigned	X	**AN 1/35**
			Payer's account number		
Conditional	BPR10	509	**Originating Company Identifier** A unique identifier designating the company initiating the funds transfer instructions. The first character is one-digit ANSI identification code designation (ICD) followed by the nine-digit identification number which may be an IRS employer identification number (EIN), data universal numbering system (DUNS), or a user assigned number; the ICD for an EIN is 1, DUNS is 3, user assigned number is 9	O	**AN 10/10**
			Check with your bank to determine requirements for this field.		
Conditional	BPR11	510	**Originating Company Supplemental Code** A code defined between the originating company and the originating depository financial institution (ODFI) that uniquely identifies the company initiating the transfer instructions	O	**AN 9/9**
			Check with your bank to determine requirements for this field.		
Conditional	BPR12	506	**(DFI) ID Number Qualifier** Code identifying the type of identification number of Depository Financial Institution (DFI)	X	**ID 2/2**
			01 ABA Transit Routing Number Including Check Digits (9 digits)		
Conditional	BPR13	507	**(DFI) Identification Number** Depository Financial Institution (DFI) identification number	X	**AN 3/12**
			Payee's financial institution		
Conditional	BPR14	569	**Account Number Qualifier** Code indicating the type of account	O	**ID 1/3**
			DA Demand Deposit SG Savings		
Conditional	BPR15	508	**Account Number** Account number assigned	X	**AN 1/35**
			Payee's account number		
Must Use	BPR16	373	**Date** Date expressed as CCYYMMDD	O	**DT 8/8**
			Payer's intended settlement date. This date may be different from the actual settlement date, which is the date your bank is debited or credited by the Federal Reserve for this item.		
Conditional	BPR17	1048	**Business Function Code** Code identifying the business reason for this payment	O	**ID 1/3**
			CON Consumer Third Party Consolidated Payment VEN Vendor Payment		
			Check with your bank to determine requirements for this field.		

Conditional Note: The BPR elements may or may not be required by your bank. Different banks have different requirements related to the BPR elements. Your relationship with your bank will be the deciding factor on what information you will send and receive.

Allowable Combinations	**BPR01**	**BPR04**	**BPR05**
Payment & Remittance together	C	ACH	CTX
Remittance Info Only – ACH CCP	I	ACH	CCP
Remittance Info Only – Check	I	CHK	PBC

Segment:	# TRN Trace
Position:	035
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	1
Purpose:	To uniquely identify a transaction to an application
Syntax Notes:	
Semantic Notes:	**1** TRN02 provides unique identification for the transaction.
	2 TRN03 identifies an organization.
	3 TRN04 identifies a further subdivision within the organization.
Comments:	
VA Use:	Required
	This segment will be used to generate the addenda record that accompanies the dollars when only remittance information is sent.
Example:	TRN*1*76037298

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes	
Must Use	TRN01	481	**Trace Type Code**	M	ID 1/2

Code identifying which transaction is being referenced

1	Current Transaction Trace Numbers	
	Payment and Remittance Information Together	
3	Financial Reassociation Trace Number	
	The matching of payment and remittance information originated separately	
	Remittance Information Only	

	Ref. Des.	Data Element	Name	X12 Attributes	
Must Use	TRN02	127	**Reference Identification**	M	AN 1/30

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Unique Number identifying this remittance advice, used to reassociate the remittance advice to the payment, if the payment and remittance advice are sent separately.

Segment:	**N1** Name
Position:	070
Loop:	N1
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.

VA Use:	Required
Example:	N1*PR*LDC COMPANY*1*007909411
	Note: The N1*PR is used to reflect the payer. In LDC Consolidated Billing, the Payer is the utility (LDC); in CSP Consolidated Billing, the Payer is the supplier (CSP). Used in CSP Consolidated Billing only if LDC is accepting an 820 from the CSP.

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes	
Must Use	N101	98	**Entity Identifier Code**	M	ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual		
			PR Payer		
			Initiator of the Payment Order/Remittance Advice		
Must Use	N102	93	**Name**	X	AN 1/60
			Free-form name		
			Payer Name		
Must Use	N103	66	**Identification Code Qualifier**	X	ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)		
			1 D-U-N-S Number, Dun & Bradstreet		
			9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix		
Must Use	N104	67	**Identification Code**	X	AN 2/80
			Code identifying a party or other code		
			Payer D-U-N-S Number or D-U-N-S+4 Number		

Segment:	**N1** Name	
Position:	070	
Loop:	N1	
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.

VA Use:	Required
Example:	N1*PE*CSP COMPANY*1*007909422 Note: The N1*PE is used to reflect the receiver of the payment. In LDC Consolidated Billing, the Payee is the supplier (CSP); in CSP Consolidated Billing, the Payee is the utility (LDC). Used in CSP Consolidated Billing only if LDC is accepting an 820 from the CSP.

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes	
Must Use	N101	98	**Entity Identifier Code**	M	ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual		
			PE Payee		
			Receiver of the Payment Order/Remittance Advice		
Must Use	N102	93	**Name**	X	AN 1/60
			Free-form name		
			Payee Name		
Must Use	N103	66	**Identification Code Qualifier**	X	ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)		
			1 D-U-N-S Number, Dun & Bradstreet		
			9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix		
Must Use	N104	67	**Identification Code**	X	AN 2/80
			Code identifying a party or other code		
			Payee D-U-N-S Number or D-U-N-S+4 Number		

Segment:	ENT Entity	
Position:	010	
Loop:	ENT	
Level:	Detail	
Usage:	Mandatory	
Max Use:	1	
Purpose:	To designate the entities which are parties to a transaction and specify a reference meaningful to those entities	
Syntax Notes:	1	If either ENT02, ENT03 or ENT04 are present, then the others are required.
	2	If either ENT05, ENT06 or ENT07 are present, then the others are required.
	3	If either ENT08 or ENT09 is present, then the other is required.
Semantic Notes:		
Comments:	1	This segment allows for the grouping of data by entity/entities at or within a master/masters. A master (e.g., an organization) can be comprised of numerous subgroups (e.g., entities). This master may send grouped data to another master (e.g., an organization) which is comprised of one or more entities. Groupings are as follows:
		(1) Single/Single: Only ENT01 is necessary, because there is a single entity (the sending master) communicating with a single entity (the receiving master).
		(2) Single/Multiple: ENT05, ENT06, and ENT07 would be used to identify the entities within the receiving master. The sending master is a single entity, so no other data elements need be used.
		(3) Multiple/Single: ENT02, ENT03, and ENT04 would be used to identify the entities within the sending master. The receiving master is a single entity, so no other data elements need be used.
		(4) Multiple/Multiple: ENT02, ENT03, and ENT04 would be used to identify the entities within the sending master. ENT05, ENT06, and ENT07 would be used to identify the entities within the receiving master.
	2	This segment also allows for the transmission of a unique reference number that is meaningful between the entities.
VA Use:	Required	
Example:	ENT*1	

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	ENT01	554	**Assigned Number** Number assigned for differentiation within a transaction set	O N0 1/6

Segment:	# RMR Remittance Advice Accounts Receivable Open Item Reference
Position:	150
Loop:	RMR
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To specify the accounts receivable open item(s) to be included in the cash application and to convey the appropriate detail

Syntax Notes:	1	If either RMR01 or RMR02 is present, then the other is required.
	2	If either RMR07 or RMR08 is present, then the other is required.
Semantic Notes:	1	If RMR03 is present, it specifies how the cash is to be applied.
	2	RMR04 is the amount paid.
	3	RMR05 is the amount of invoice (including charges, less allowance) before terms discount (if discount is applicable) or debit amount or credit amount of referenced items.
	4	RMR06 is the amount of discount taken.
	5	RMR08, if present, represents an interest penalty payment, amount late interest paid, or amount anticipation.
Comments:	1	Parties using this segment should agree on the content of RMR01 and RMR02 prior to initiating communication.
	2	If RMR03 is not present, this is a payment for an open item. If paying an open item, RMR02 must be present. If not paying a specific open item, RMR04 must be present.
	3	RMR05 may be needed by some payees to distinguish between duplicate reference numbers.

VA Use:	Required
Examples:	RMR*12*7799621539*PO*300.00 RMR*12*39481958690*PO*795.00 RMR*12*3965716927*AJ*-95***CS*-95.00 RMR*IK*123455**1000.00

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	**RMR01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification	**X ID 2/3**
			12 Billing Account	
			Account number under which billing is rendered	
			LDC-assigned account number for the end use customer. Not used by AEP	
			IK Invoice Number	
			Invoice number from the BIG02 of the most current 810 Invoice from the supplier for LDC Consolidated Billing. Under CSP Consolidated Billing , use the 867 transaction identification number (BPT02). Only used by AEP	
Must Use	**RMR02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X AN 1/30**
			LDC assigned account number for the end use customer. Not used by AEP. Invoice Number. Only used by AEP.	
Conditional	**RMR03**	**482**	**Payment Action Code** Code specifying the accounts receivable open item(s), if any, to be included in the cash application.	**O ID 2/2**
			AJ Adjustment	

			Adjustment of a previous payment.			
		PO	Payment on Account			
Must Use	**RMR04**	**782**	**Monetary Amount**	**O**	**R**	**1/18**

Monetary amount

The amount paid. This amount is algebraically summed to BPR02. If the total of all RMRs is negative, see Instructions for Handling a Negative Remittance in NOTES section of this Standard.

Conditional	**RMR05**	**782**	**Monetary Amount**	**O**	**R**	**1/18**

Monetary amount

Original invoice (810) amount. If purchasing receivables, RMR05 - RMR06 should equal RMR04.
Condition: If purchasing receivables at a discounted rate.

Conditional	**RMR06**	**782**	**Monetary Amount**	**O**	**R**	**1/18**

Monetary amount

Negotiated discount amount. If purchasing receivables, RMR05 – RMR06 should equal RMR04.
Condition: If purchasing receivables at a discounted rate.

Conditional	**RMR07**	**426**	**Adjustment Reason Code**	**X**	**ID**	**2/2**

Code indicating reason for debit or credit memo or adjustment to invoice, debit or credit memo, or payment

Condition: Required for Adjustments (RMR03=AJ) only

CS	Adjustment
IF	Insufficient Funds
26	Invoice Cancelled
72	Authorized Return

Conditional	**RMR08**	**782**	**Monetary Amount**	**X**	**R**	**1/18**

Monetary amount

The adjustment amount. This amount should be signed if negative. For an adjustment to this current payment, the amount in RMR04 is the result after the adjustment was applied; i.e., net of the adjustment. For an adjustment to a previous payment, the amount in RMR04 is to be the same as the amount in this RMR08.
Condition: Required for Adjustments (RMR03=AJ) only

Segment:	**REF** Reference Identification
Position:	170
Loop:	RMR
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To specify identifying information
Syntax Notes:	1 At least one of REF02 or REF03 is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	
VA Use:	.Required if it was previously provided to the LDC.
Example:	REF*11*1394959

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes	
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification		
			11 Account Number		
			CSP-assigned account number for the end use customer.		
Must Use	**REF02**	**127**	**Reference Identification**	**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

Segment:	**REF** Reference Identification	
Position:	170	
Loop:	RMR	
Level:	Detail	
Usage:	Optional	
Max Use:	>1	
Purpose:	To specify identifying information	
Syntax Notes:	1 At least one of REF02 or REF03 is required.	
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.	
Comments:		
VA Use:	Optional. Recommended if the LDC has changed the account number within the last 60 days.	
Example:	REF*45*2310130586	

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	REF01	128	**Reference Identification Qualifier** Code qualifying the Reference Identification	M ID 2/3
			45 Old Account Number	
			LDC's previous account number for this premise for this end use customer. Not used by AEP	
Must Use	REF02	127	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

Segment:	**REF** Reference Identification
Position:	170
Loop:	RMR
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To specify identifying information
Syntax Notes:	1 At least one of REF02 or REF03 is required.
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	SDID numbers will only contain uppercase letters (A to Z) and Digits (0 - 9). Note that punctuation (spaces, dashes, etc.) must be excluded, and leading and trailing zeros that are part of the SDID number must be present
VA Use:	Required if customer is in AEP service territory.
Example:	REF*Q5**98765423658791239

Data Element Summary

Must Use	Ref. Des.	Data Element	Name		X12 Attributes
Must Use	REF01	128	**Reference Identification Qualifier**		M ID 2/3
			Code qualifying the Reference Identification		
			Q5	Property Control Number	
				AEP assigned service delivery identification number	
Must Use	REF03	352	**Description**		X AN 1/80
			A free-form description to clarify the related data elements and their content		
			AEP assigned service delivery identification number		

Segment:	**REF** Reference Identification	
Position:	170	
Loop:	RMR	
Level:	Detail	
Usage:	Optional	
Max Use:	>1	
Purpose:	To specify identifying information	
Syntax Notes:	1	At least one of REF02 or REF03 is required.
Semantic Notes:	1	REF04 contains data relating to the value cited in REF02.
Comments:		
VA Use:	.Conditional (Required if purchasing receivables; otherwise optional)	
Example:	REF*6O*123456789	

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes	
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification		
			6O Cross Reference Number		
			Unique cross-reference number to link 867, 810, and 820. The cross- reference number originally transmitted in the 867MU – BPT02, and the 810 – BIG05.		
Must Use	**REF02**	**127**	**Reference Identification**	**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

Segment:	**DTM** Date/Time Reference		
Position:	180		
Loop:	RMR		
Level:	Detail		
Usage:	Optional		
Max Use:	>1		
Purpose:	To specify pertinent dates and times		
Syntax Notes:	1 At least one of DTM02, DTM03 or DTM05 is required.		
	2 If DTM04 is present, then DTM03 is required.		
	3 If either DTM05 or DTM06 is present, then the other is required.		
Semantic Notes:			
Comments:			
VA Use:	Optional.Required if Billing Party is not buying receivables		
Example:	DTM*809*19990214		

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes
Must Use	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time	M ID 3/3
			809 Posted	
			Date the payment was posted to accounting system of billing party	
Must Use	**DTM02**	**373**	**Date** Date expressed as CCYYMMDD	X DT 8/8

Segment:	**SE** **Transaction Set Trailer**
Position:	010
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.
VA Use:	Required
Example:	SE*12*000000001

Data Element Summary

	Ref. Des.	Data Element	Name	X12 Attributes	
Must Use	SE01	96	**Number of Included Segments**	M	N0 1/10
			Total number of segments included in a transaction set including ST and SE segments		
Must Use	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		

EXAMPLE: Scenario #1 - Payment accompanies Remittance Advice – CTX Transaction

(Positive Remittance)

BPR*C*1000.00*C*ACH*CTX*01*031100047*DA*1 234567***01*031201467*DA*7654321*19990520	Handling code, total amount, credit indicator, banking information, intended settlement date.
TRN*1*76037298	Trace Number
N1*PR*LDC COMPANY*1*007909411	Payer Name
N1*PE*CSP COMPANY*1*007909422	Payee Name
ENT*1	
RMR*12*7799621539*PO*300.00	LDC Account Number and associated dollar amount
REF*11*1394959	CSP Account Number
REF*45*2310130586	Old LDC Account Number
REF*6O*LDC19990501-001	Cross reference number to 867 & 810.
DTM*809*19990514	Date customer payment was posted.
RMR*12*39481958690*PO*795.00	LDC Account Number and associated dollar amount
REF*11*3865186	CSP Account Number
REF*6O*LDC19990501-002	Cross reference number to 867 & 810.
DTM*809*19990514	Date customer payment was posted.
RMR*12*3965716927*AJ*-95.00***CS*-95.00	LDC Account Number and associated dollar amount
REF*11*3859175	CSP Account Number
REF*6O*LDC19990501-003	Cross reference number to 867 & 810.
DTM*809*19990514	Date customer payment was posted.

EXAMPLE: Scenario # 1A - Payment accompanies Remittance Advice – CTX Transaction
(Positive Remittance) Purchase of Receivables at a discount

BPR*C*294.00*C*ACH*CTX*01*031100047*DA*12 34567***01*031201467*DA*7654321*19990520	Handling code, total amount, credit indicator, banking information, intended settlement date.
TRN*1*76037298	Trace Number
N1*PR*LDC COMPANY*1*007909411	Payer Name
N1*PE*CSP COMPANY*1*007909422	Payee Name
ENT*1	
RMR*IK*7799621539*PO*294.00*300.00*6.00	AEP SDID number and associated dollar amounts
REF*11*1394959	CSP Account Number
REF*Q5*23101305864265902	AEP Service Delivery Identification number
REF*6O*LDC19990501-001	Cross reference number to 867 & 810.
DTM*809*20010825	Date customer payment was posted.

EXAMPLE: Scenario #2 - Payment accompanies Remittance Advice – CTX Transaction (Negative Remittance)

Payment is not made and Remittance Advice is held one business day to see if the remittance becomes positive. Please see Notes page in the 820 Payment Order/Remittance Advice EDI Implementation Standard for instructions on how to resolve a negative remittance older than one business day.

BPR*C***????***C*ACH*CTX*01*031100047*DA*123 4567***01*031201467*DA*7654321*19990520	*Remittance Advice and Payment Instruction will not be generated and sent because the RMRs do not total to a positive number.* Handling code, total amount, credit indicator, banking information, intended settlement date.
TRN*1*76037298	Trace Number
N1*PR*LDC COMPANY*1*007909411	Payer Name
N1*PE*CSP COMPANY*1*007909422	Payee Name
ENT*1	
RMR*12*7799621539*PO*300.00	LDC Account Number and associated dollar amount
REF*11*1394959	CSP Account Number
REF*6O*LDC19990501-001	Cross reference number to 867 & 810.
DTM*809*19990514	Date customer payment was posted.
RMR*12*39481958690*PO*795.00	LDC Account Number and associated dollar amount
REF*11*3865186	CSP Account Number
REF*6O*LDC19990501-002	Cross reference number to 867 & 810.
DTM*809*19990514	Date customer payment was posted.
RMR*12*3965716927*AJ*-1195.00***CS*-1195.00	LDC Account Number and associated dollar amount
REF*11*3859175	CSP Account Number
REF*6O*LDC19990501-003	Cross reference number to 867 & 810.
DTM*809*19990514	Date customer payment was posted.

Example: Scenario #3 - It should be noted that the Examples provided in Scenario #3 (Part A and Part B) are not being supported by the VAEDT Consensus Plan. The examples are provided for illustration purposes only.

EXAMPLE: Scenario #3 - Part A: Payment Only – CCD+ Transaction

BPR*D*1000.00*C*ACH*CCP*01*031100047*DA*1234567***01*031201467*DA*7654321*19990520	Handling code, total amount, credit indicator, intended settlement date.
TRN*1*76037298	Trace Number
N1*PR*LDC COMPANY*1*007909411	Payer Name
N1*PE*CSP COMPANY*1*007909422	Payee Name

Scenario #3: **Part B**: Remittance Only

BPR*I*1000.00*C*ACH*CTX***********19990520	Handling code, total amount, credit indicator, intended settlement date.
TRN*1*76037298	Trace Number
N1*PR*LDC COMPANY*1*007909411	Payer Name
N1*PE*CSP COMPANY*1*007909422	Payee Name
ENT*1	
RMR*12*7799621539*PO*300.00	LDC Account Number and associated dollar amount
REF*11*1394959	CSP Account Number
REF*45*2310130586	Old LDC Account Number
REF*6O*LDC19990501-001	Cross reference number to 867 & 810.
DTM*809*19990514	Date customer payment was posted.
RMR*12*39481958690*PO*795.00	LDC Account Number and associated dollar amount
REF*11*3865186	CSP Account Number
REF*6O*LDC19990501-002	Cross reference number to 867 & 810.
DTM*809*19990514	Date customer payment was posted.
RMR*12*3965716927*AJ*-95.00***CS*-95.00	LDC Account Number and associated dollar amount
REF*11*3859175	CSP Account Number
REF*6O*LDC19990501-003	Cross reference number to 867 & 810.
DTM*809*19990514	Date customer payment was posted.

Please note that the TRN is identical in Scenario #3 parts A & B so that they can be reassociated.

EXAMPLE: Scenario #4: Remittance Only – Negative Remittance

Payment is not made and Remittance Advice is held one business day to see if the remittance becomes positive. Please see Notes page in the 820 Payment Order/Remittance Advice EDI Implementation Standard for instructions on how to resolve a negative remittance older than one business day

BPR*I***?????***C*ACH*CTX**********19990220	Handling code, total amount, credit indicator, intended settlement date.
TRN*1*76037298	Trace Number
N1*PR*LDC COMPANY*1*007909411	Payer Name
N1*PE*CSP COMPANY*1*007909422	Payee Name
ENT*1	
RMR*12*7799621539*PO*300.00	LDC Account Number and associated dollar amount
REF*11*1394959	CSP Account Number
REF*45*2310130586	Old LDC Account Number
REF*6O*LDC19990501-001	Cross reference number to 867 & 810.
DTM*809*19990514	Date customer payment was posted.
RMR*12*39481958690*PO*795.00	LDC Account Number and associated dollar amount
REF*11*3865186	CSP Account Number
REF*6O*LDC19990501-002	Cross reference number to 867 & 810.
DTM*809*19990514	Date customer payment was posted.
RMR*12*3965716927*AJ*-1195.00***CS*-1195.00	LDC Account Number and associated dollar amount
REF*11*3859175	CSP Account Number
REF*6O*LDC19990501-003	Cross reference number to 867 & 810.
DTM*809*19990514	Date customer payment was posted.

Note that there is no associated CCD+ transaction.