

RxQ TEIS Interfaces to CPS and SUIIS Subcommittees

Intro

- **CPS and SUIIS subcommittees are busy defining standards 'books'.**
- **The Technical Electronic Implementation Subcommittees (TEIS) of the Retail Electric and Retail Gas quadrants (RxQ) have several key deliverables with respect to Quadrant business process books.**
- **First 'books' requesting TEIS work are Billing (Invoice, Payment)**
- **Define processes to improve efficiency between CPS/SUIIS subcommittees and TEIS**
- **Learn from WGQ processes**
- **Working paper 'stake in the ground' to stimulate dialogue**

RxQ TEIS 'Book' Responsibilities

- **Cross-reference to QEDM and Internet ET Related standards.**
- **Collaboration with business subcommittees on the “Technical Implementation of the Business Process (TIBP)”**
- **Collaboration with business subcommittees on the “Sample Paper Transaction”**
- **Collaboration with business subcommittees on the “Data Dictionary”**

RxQ TEIS 'Book' Responsibilities

- **“Code Values Dictionary”**
- **“Data Element Cross Reference”**
- **“Sample X12 Transaction”**
- **“X12 Mapping Guidelines”**
- **“X12 Transaction Set Tables”**
- **“Sample FF”**
- **“FF Guidelines”**
- **“FF Tables”**
- **Etc..**

QEDM and Internet ET XRef

- **Led by TEIS**
- **Completed after transaction sub-tabs are completed**

Technical Implementation Of BP

- **Led by business subcommittee**
- **Collaboration**

Sample Paper Transaction

- **Led by business subcommittee**
- **Collaboration**

Data Dictionary

- **Led by business subcommittee**
- **Collaboration**
- **Required Information (next 2 slides)**

Data Dictionary Required Information

- The business name and abbreviation for each data element
- The definition of each data element
- The data group of each data element. The data group defines a group of data elements that are related to each other. For example, charge quantity and charge rate on an invoice would be in the same data group. The data group may also reflect a 'looping' relationship, where a group of data elements repeats in a transaction.
- Usage (see next slide)
- Narrative of any 'C' or 'BC' conditions
- Narrative of acceptable flavors for finite lists. (Not 'values')

Data Dictionary 'Usage'

- **M = Mandatory; must be used**
- **C = Conditional; mandatory when**
 - A) Defined conditions are met within the transaction, triggered by the conditional data element's relationship to another data element within the current data dictionary. OR
 - B) Defined conditions are met within the business process life-cycle.
- **BC = Business Conditional; mandatory based on acceptable differences in business practices documented in NAESB standards.**
- **MA = Mutually-agreed; used when both sending and receiving party agree on use**
- **SO = Sender's option; used at sender's discretion**
- **NU = Not used; when multiple scenarios are shown for a given transaction**

Code Values Dictionary

- **Led by TEIS**
- **Collaboration with business subcommittees**
- **Reference existing body of work and industry / regional standards**

Transaction Sub-Tabs

- **Transaction Format Priority**
- **Data Element Cross Reference**
 - Led by TEIS
- **Sample electronic Transaction**
 - Led by TEIS
 - May be X12, FF, XML, etc
- **Mapping Guidelines**
 - Led by TEIS
 - May be X12, FF, XML, etc
- **Transaction Set Tables**
 - Led by TEIS
 - May be X12, FF, XML, etc

TEIS INTERFACES

The Technical Electronic Implementation Subcommittees (TEIS) of the Retail Electric and Retail Gas quadrants have several key deliverables with respect to Quadrant business process books.

In the Business Practices and Processes tab:

- The cross-reference to QEDM and Internet ET Related standards. Note that any technical standards will be included in the QEDM and Internet ET related standards, and no longer in the 'Related Standards' tab one level higher.

Inside each transaction standard (e.g. 1.4.1 Nomination):

- Collaboration with business subcommittees on the Technical Implementation of the Business Process (TIBP)
- Collaboration with business subcommittees on the Sample Paper Transaction
- Collaboration with business subcommittees on the Data Dictionary
- The Code Values Dictionary

Inside each transaction standard's EDI/FF tab:

- Data Element Cross Reference
- Sample X12 Transaction
- X12 Mapping Guidelines
- Transaction Set Tables

This document details the optimal interface between the business subcommittees and the TEIS subcommittees to achieve these goals in a timely manner.

CROSS-REFERENCE TO QEDM AND INTERNET ET RELATED STANDARDS

Led by TEIS

TEIS will lead the effort to cross-reference standards from the Internet ET and QEDM standards. These standards will no longer appear in the higher-level 'Related Standards' tab since this is redundant for technical related standards.

Completed after transaction sub-tabs are completed

Since the transaction sub-tab's may dictate related standards, this work will be done after the each transaction sub-tab is completed.

TECHNICAL IMPLEMENTATION OF BUSINESS PROCESS

Led by business subcommittee

TEIS will look to the business subcommittees for the initial draft of this document.

Collaboration

TEIS will provide input to the TIBP, but completion of this section remains the responsibility of the business subcommittees.

SAMPLE PAPER TRANSACTION

Led by business subcommittee

TEIS will look to the business subcommittees for the initial draft of this document.

Collaboration

TEIS will provide input to the sample paper transaction, but completion of this section remains the responsibility of the business subcommittees.

DATA DICTIONARY

Led by business subcommittee

TEIS will look to the business subcommittees for the initial draft of this document, and for finalization of this section.

Collaboration

TEIS will provide input to the data dictionary, but completion of this section remains the responsibility of the business subcommittees.

Required Information

The TEIS needs the following data dictionary information to complete its deliverables:

- The business name and abbreviation for each data element
- The definition of each data element
- The data group of each data element. The data group defines a group of data elements that are related to each other. For example, charge quantity and charge rate on an invoice would be in the same data group. The data group may also reflect a 'looping' relationship, where a group of data elements repeats in a transaction.
- The Usage of the data element, from the following list of usage codes:
 - o M = Mandatory; must be used
 - o C = Conditional; mandatory when
 - A) Defined conditions are met within the transaction, triggered by the conditional data element's relationship to another data element within the current data dictionary. For example, ??
 - OR**
 - B) Defined conditions are met within the business process life-cycle. For example, ??
 - o BC = Business Conditional; mandatory based on acceptable differences in business practices documented in NAESB standards. For example, 'ESP Account Number' is BC, with condition 'Sent by the ESP in the Enrollment'. BC practices must be communicated to trading partners during setup.
 - o MA = Mutually-agreed; used when both sending and receiving party agree on use
 - o SO = Sender's option; used at sender's discretion (e.g. Supplier account number in enrollment)
 - o NU = Not used; when multiple scenarios are shown for a given transaction
- Narrative of the conditions of usage for the data element if either C or BC.

- Narrative of the list of acceptable flavors if a finite list is expected. (e.g. 'Dual', 'Utility', or 'Supplier' for Party calculating charges/bill on an Invoice). Note that TEIS will define the actual Code Values.

Once the transaction sub-tab is complete, TEIS will provide a cross reference to the Code Values Dictionary for any elements that have a Code Values table.

CODE VALUES DICTIONARY

Led by TEIS

TEIS will lead this effort, including responsibility for completion.

Collaboration with business subcommittees

TEIS will look to the business subcommittees for direction with respect to acceptable flavors for the data element. For example in the Invoice, TEIS would like to receive the 'party calculating charges' data element as 'Dual', 'Utility', or 'Supplier', rather than any well-known or popular codes (e.g. DUAL, LDC, ESP).

Where actual codes are required by a business subcommittee, TEIS will look for Quadrant EC approval.

Reference existing body of work and industry/regional standards

TEIS will define the actual Code Values by researching existing bodies of work in the energy industry, in transaction standards (e.g. X12), and other locations.

Since debate is expected and there is no TEIS subcommittee voting structure, Code value dictionaries that do not achieve TEIS consensus will be forwarded to the business process subcommittee from where it originated, or the EC for disposition.

TRANSACTION SUBTABS

Transaction Format Priority

TEIS will look to each Quadrant's EC to define the priority for transaction formats (ie X12, Flat-files, XML).

DATA ELEMENT CROSS REFERENCE

Led by TEIS

TEIS will lead this effort, including responsibility for completion.

SAMPLE ELECTRONIC TRANSACTION

Led by TEIS

TEIS will lead this effort, including responsibility for completion.

May be X12, FF, XML, etc

MAPPING GUIDELINES

Led by TEIS

TEIS will lead this effort, including responsibility for completion.

May be X12, FF, XML, etc

TRANSACTION SET TABLES

Led by TEIS

TEIS will lead this effort, including responsibility for completion.

May be X12, FF, XML, etc

Transaction Metadata

NAESB-Book: ??
Quadrants: REQ RGQ
Transaction: Invoice
Flavors: Bill Ready Rate Read CombUsage
Flavor-Codes: BR RR CU
Formats: ANSI X12 XML
Format-Codes: 810 Invoice

Worksheet Legend:

Meta Meta-data for transaction set(s)
Data Dictionary Per NAESB standards
Code Values Table used to generate NAESB code values table
X12xRef X12 Cross Reference to NAESB data elements
X12Sample Sample X12 Transactions
X12Tables ??

ID (TEIS Use)	Business Name	Definition	Model Data Group	Bill Ready (BR)	Rate Ready (RR)	Combined w/ Usage (CU)	Condition	Comments [Code Descriptions for Code Value Dictionary]
AdjAmt	Adjustment Amount	A dollar amount representing an allowance or charge to the customer	Charge	C	C	C	BR:Used by the Non-Billing Party when an adjustment amount is transmitted to the Billing Party for placement on the bill; RR:Used by the Billing Party when an adjustment amount is transmitted to the Non-Billing Party	
AdjChgCredInd	Adjustment Charge or Credit Indicator	A code indicating whether the amount is a charge or a credit to the customer	Charge	NU	C	C	Used by the Billing Party when an adjustment amount is transmitted to the Non-Billing Party	
AdjInd	Adjustment Indicator	A code that identifies the existence of an adjustment in the invoice	Charge	M	C	C		
ApplBudgetBil	Applicable budget billing information	Text used by the Non-Billing Party to inform the customer of the difference between the budget amounts paid and the accrued amount outstanding	AcctSum	MA	NU	NU		
ApplTaxes	Applicable taxes	A taxable amount calculated by the Non-Billing Party and transmitted to the Billing Party for placement on the customer bill	AcctSum	C	C	C	BR: Used by the Non-Billing Party when a tax amount is transmitted to the Billing Party for placement on the bill; RR: Used by the Billing Party when a tax amount is transmitted to the Non-Billing Party	
AppITxChgCr	Applicable Tax Charge or Credit Indicator	A code indicating whether the amount is a charge or a credit to the customer	AcctSum	NU	C	C	Used when an Applicable Tax Indicator is Yes	
AppITxInd	Applicable tax indicator	Used to indicate that taxes are included for Non-Billing Party charges	AcctSum	NU	M	M		[Yes,No]
BillActionCode	Bill Action Code	This is a code sent to the Billing Party that conveys instructions regarding the action to be taken by the Billing Party	Header	M	M	M		
BillDate	Bill Date	The date the bill was or will be issued to the customer		??	M	M	??same as InvDate	
BillNum	Bill Number	Unique number identifying this bill		??	M	M	??same as InvNum	
BillCycle	Billing Cycle	Cycle on which the bill will be rendered. Cycle associated with account.		NU	M	M		
BillDemand	Billing Demand			NU	MA	MA		
BillingOption	Billing Option	Indicates which party is to calculate the customer's bill		M	M	M		
BillingPartyDUN	Billing Party Duns Number	Billing Party's DUNS Number or DUNS+4 Number		M	M	M		
ChgCategory	Category of Charge	This is a code to indicate whether or not the charges are summarized at the account level		M	M	M		
ChgDesc	Charge Description	Text description for line item charge that will print on the customer's bill		BP	MA	MA		
ChgDueDate	Charge Due Date	Customer payment due date		C	NU	NU	Mandatory if Billing Option code of "S"	
ChgCredAmt	Charge or Credit Amount	Dollar amount (credit or debit) for the charge. If dollar amount is negative, the leading negative sign will be sent. If the dollar amount is positive, no leading sign is sent.		M	NU	NU		
ChgCredAmtDue	Charge or Credit Amount Due Date	Customer Payment Due Date		NU	MA	MA		
ChgCredInd	Charge or Credit Indicator	A code indicating whether the Adjustment Amount is an allowance or a charge to the customer		C	??same as above?	??same as above?	BR:Used by the Non-Billing Party when an adjustment amount is transmitted to the Billing Party for placement on the bill	
XRefNum	Cross Reference Number	The cross-reference number originally transmitted with the usage information for use as a cross-matching tool		M	MA	MA	??why? How do you tie to payments? Or usage?	
CurCustChg	Current Customer Charge	Charges associated with the current customer charge		NU	MA	MA		
CurDemChg	Current Demand Charge	Charges associated with the current demand		NU	MA	MA		
CurNonTOUC	Current Non-TOU Charge	Charges associated with the current billing of non-TOU		NU	MA	MA		
CurOffPkChg	Current Off-Peak Charge	Charges associated with the current off-peak charge		NU	MA	MA		

CurPkChg	Current Peak Charge	Charges associated with the current peak charge		NU	MA	MA	
ServPerEnd	Current Service Period End	Service Period Ending Date		M	M	M	
ServPerStart	Current Service Period Start	Service Period Starting Date		M	M	M	
CurShoulderC	Current Shoulder Charge	Charges associated with shoulder period usage		NU		MA	
CurUsg	Current usage	Consumption or other "unit" for the charge		NU		M	
CustAcctNum	Customer Account Number or SDID Number	Customer Account Number assigned by the Distribution Company		M	M	M	
CustName	Customer Name	Customer Name		M	M	M	
InvDate	Invoice date	The date the Non-Billing Party's invoice was generated		M	??	??	Same as Bill date
Invnumber	Invoice number	Unique number identifying this invoice		M	??	??	Same as Bill Num
LtPayChg	Late payment charges	The charge rendered for late payment of Non-Billing Party charges		NU	C	C	Sent to Billing Party only if a late payment charge is appropriate
NonBillPartyA	Non-Billing Party account number	A customer account number assigned by the Non-Billing Party		MA	BC	BC	
NonBillPartyA	Non-Billing Party Arrears	A dollar amount representing the Non-Billing Party's balance excluding current charges		NU	MA	MA	
NonBillPartyD	Non-Billing Party Duns number	Non-Billing Party DUNS number or DUNS+4 number		M	M	M	
NonBillPartyP	Non-Billing Party Pricing Option	Indicates the Non-Billing Party's additional rate code description		NU	MA	MA	
NonBillPartyR	Non-Billing Party Rate Code	Indicates the Non-Billing Party's rate code for a charge		NU	M	M	
OffPkKWH	Off Peak Kilowatt-hour Usage	??		NU		MA	
OffPkKVA	Off Peak KVA Demand	??		NU		MA	
OffPkKW	Off Peak KW	??		NU		MA	
OffPkKWDem	Off Peak KW Demand	??		NU		MA	
OrigInvNum	Original Invoice Number	Original Invoice Number is the unique number assigned to the original bill		C	C	C	When a bill is cancelled and re-billed, the Original Bill Number is used as a trace number for the receiver
PkKWH	Peak Kilowatt-hour usage	Kilowatt-hour usage during peak hours		NU		MA	
PkKVA	Peak KVA Demand	Peak KVA demand during the billing period		NU		MA	
PkKWDeman	Peak KW Demand	Peak demand during the billing period		NU		MA	
PriMtrInd	Primary Metering Indicator	Indicates that the customer has primary metering		NU	MA	MA	
ServAddr	Service address	Customer's service address that may not be the Customer's Billing Address		C	NU	NU	BR:Mandatory if Billing Option code of "S"
ServType	Service Type	Indicates type of service rendered		M	M	M	
ShldKWH	Shoulder Kilowatt-hour Usage			NU		MA	
ShldKVA	Shoulder KVA Demand			NU		MA	
ShldKW	Shoulder KW Demand			NU		MA	
TotalBal	Total Balance	Customer total outstanding balance (previous period balance plus current charges, allowances or credits)		NU	MA	MA	
TotalKWHNor	Total Kilowatt-hour usage (non-TOU)	Kilowatt-hour usage (non-TOU)		NU		MA	
NonBillPartyM	Text message by the Non-Billing Party	A text message the Non-Billing Party wants to appear on the customer's bill		MA	MA	MA	??BC
UsgHist12Mo	Twelve months usage history	Twelve individual monthly usage amounts that are placed on the bill so the customer may review historical usage patterns		C		NU	BR:Used when the Distribution Company is required to place usage history on the customer's bill
UnitMeas	Unit of Measure	Unit of measure for quantity		C		M	BR:Mandatory if Billing Option code of "S"
UsgInd	Usage Indicator	Indicator distinguishes between estimated usage and actual usage		C		M	BR:Mandatory if Billing Option code of "S"
UtilRateCode	Utility Rate Code	Rate Code that indicates the billing rate ??		C	M	M	BR:Mandatory if Billing Option code of "S"

Code	Code Value	Code Value Description	Code Value Definition
Adjustment Indicator Code		Yes	
Adjustment Indicator Code		No	
Bill Action Code		Memorandum	
Bill Action Code		Original	
Bill Action Code		Cancellation	
Bill Action Code		Reversal	
Bill Action Code		Reissue	
Bill Action Code		Memorandum	
Bill Action Code		Final Bill	
Billing Option		Utility Consolidated	
Billing Option		Supplier Consolidated	
Billing Option		Dual	
Category of Charge		Yes	
Category of Charge		No	
Charge Description		KW	
Charge Description		KWH	
Charge Description		Therms	
Charge Description		CCF	
Charge Description		MCF	
Charge Description		Late Payment Charge	
Charge Description		Non-energy Charge	
Charge or Credit Indicator		Allowance	
Charge or Credit Indicator		Charge	
Charge or Credit Indicator		No Charge	
Service or Type		Electric	
Service or Type		Gas	
AdjChgCredInd		Charge	
AdjChgCredInd		Credit	
ApplTxChgCredInd		Charge	
ApplTxChgCredInd		Credit	
ApplTxInd		Yes	
ApplTxInd		No	

Level	Segment	Usage	NAESB Data Element Name
Heading	ST	M	Transaction Set Header
Heading	BGN	M	Transaction Status Code
Heading	III	C	Validation Code
Heading	III	SO	Validation Message
Heading	N1	M	Service Requester
Heading	N1	M	Transportation Service Provider
Detail	N9	C	Reference Identification segment
Detail	DTM	C	Beginning Date
Detail	DTM	C	Beginning Time
Detail	DTM	C	Ending Date
Detail	DTM	C	Ending Time
Detail	CS	C	Service Requester Contract
Detail	III	C	Validation Code
Detail	III	SO	Validation Message
Sub-detail	SLN	C	Nominator's Tracking ID
Sub-detail	REF	MA	Service Provider's Activity Code
Sub-detail	III	C	Validation Code
Sub-detail	III	SO	Validation Message
Sub-detail	SE	M	Transaction Set Trailer

Segment	01	02	03	04	05	06	07	08
ST	874	12345678						
BGN	27	1	19960123				V2	EZ
N1	SJ		1	3.58E+08				
N1		78	1	4.79E+08				
N9	2H	531246						
DTM		7			RDT	199602010900-199602020900		
CS				KSR	K1234			
III	VAL	WNMQR300						
SE		9 12345678						

Transaction Metadata

NAESB-Book: ??
Quadrants: REQ RGQ
Transaction: Payment
Flavors: Payment
Flavor-Codes: Payment
Formats: ANSI X12 XML
Format-Codes: 820 Payment

Worksheet Legend:

Meta Meta-data for transaction set(s)
Data Dictionary Per NAESB standards
Code Values Table used to generate NAESB code values table
X12xRef X12 Cross Reference to NAESB data elements
X12Sample Sample X12 Transactions
X12Tables ??

ID (TEIS Use)	Business Name	Definition	Model Data Group	Payment	Condition	Comments [Code Descriptions for Code Value Dictionary]
BillPartyAcctNum	Billing Party Account Number	Billing Party's account number	Header	M		
BillPartyDUNS	Billing Party's Duns Number	Billing Party Duns Number	Header	M		
FundXferDate	Funds Transfer Date		Header	M		
FundXferTrackNum	Funds Transfer Tracking Number		Header	M		
NonBillPartyAcctNum	Non-Billing Party Account Number	Non-Billing Party account number	Header	M		
NonBillPartyDUNS	Non-Billing Party's Duns Number	Non-Billing Party Duns number	Header	M		
PayAdjType	Payment Adjustment Type	A code to indicate the type of payment or adjustment	Detail	M		[Adjustment,Payment on Account]
PayAdjAmt	Payment/Adjustment Amount	A dollar amount representing a payment or adjustment on the customer's account	Detail	M		
PayAdjPostDate	Payment/Adjustment Date	The date the customer's payment was posted	Detail	M		
TransDate	Transaction Date	The date this transaction was sent	Header	M		

Proposed data elements

BillThreadXRef	Billing Thread Cross Reference	The cross reference to an invoice	Detail	M		
AdjReasonCode	Adjustment Reason Code	A code to indicate reason for the adjustment	Detail	C	Mandatory for PayAdjType="Adjustment"	[Invoice Cancelled,Authorized Return,Adjustment,Insufficient Funds]

Data Element	Code Value	Code Value Description	Code Value Definition
PayAdjType	AJ	Adjustment	NA
PayAdjType	PO	Payment on Account	NA
AdjReasonCode	26	Invoice Cancelled	NA
AdjReasonCode	72	Authorized Return	NA
AdjReasonCode	CS	Adjustment	NA
AdjReasonCode	IF	Insufficient Funds	NA

DataGroup	Segment	Usage	NAESB Data Element Name	X12 Segment Name
Header	ST	M		Transaction Set Header
Header	BPR	M	FundXferDate,FundXferTrackNum,TransDate	Beginning Segment for Payment Order/Remittance Advice
Header	TRN	M	FundXferTrackNum	Trace
Header	N1	M	BillPartyDUNS*	Name
Header	N1	M	NonBillPartyDUNS	Name
Header	ENT	M		Entity
Detail	RMR	M	PayAdjType,PayAdjAmt	Remittance Advice Accounts Receivable Open Item Reference
Detail	REF	M	NonBillPartyAcctNum	Reference Identification
Detail	REF	M	BillPartyAcctNum	Reference Identification
Detail	REF	M	??	Reference Identification
Detail	DTM	M	PayAdjPostDate	Date/Time Reference
Header	SE	M		Transaction Set Trailer

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

BPR*C*1000.00*C*ACH*CTX*01*031100047*DA*1234567***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*ESP COMPANY*1*007909422	Payee Name
ENT*1	
RMR*12*7799621539*PO*300.00	LDC Account Number and associated dollar amount
REF*11*1394959	ESP Account Number
REF*45*2310130586	Old LDC Account Number
REF*6O*LDC19990501-001	Cross reference number to 867 & 810.
RMR*12*39481958690*PO*795.00	LDC Account Number and associated dollar amount
REF*11*3865186	ESP Account Number
REF*6O*LDC19990501-002	Cross reference number to 867 & 810.
RMR*12*3965716927*AJ*-.95.00***CS*-.95.00	LDC Account Number and associated dollar amount
REF*11*3859175	ESP Account Number
REF*6O*LDC19990501-003	Cross reference number to 867 & 810.

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

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 Remittance EDI Implementation Guide for instructions on how to resolve a negative remittance older than one business day.

BPR*C* -100.00 *C*ACH*CTX*01*031100047*DA*1234567***01*031201467*DA*7654321*19990520	<i>Remittance Advice and Payment Instruction will not be generated and sent because the RMRs do not total to a positive number.</i> 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*ESP COMPANY*1*007909422	Payee Name
ENT*1	
RMR*12*7799621539*PO*300.00	LDC Account Number and associated dollar amount
REF*11*1394959	ESP Account Number
REF*6O*LDC19990501-001	Cross reference number to 867 & 810.
RMR*12*39481958690*PO*795.00	LDC Account Number and associated dollar amount
REF*11*3865186	ESP Account Number
REF*6O*LDC19990501-002	Cross reference number to 867 & 810.
RMR*12*3965716927*AJ* -1195.00 ***CS* -1195.00	LDC Account Number and associated dollar amount
REF*11*3859175	ESP Account Number
REF*6O*LDC19990501-003	Cross reference number to 867 & 810.

Making the Other Party Whole Examples

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*ESP COMPANY*1*007909422	Payee Name

Scenario #3 - Part B:

Remittance Only

BPR*I*1000.00*C*ACH*CCP*****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*ESP COMPANY*1*007909422	Payee Name
ENT*1	
RMR*12*7799621539*PO*300.00	LDC Account Number and associated dollar amount
REF*11*1394959	ESP Account Number
REF*45*2310130586	Old LDC Account Number
REF*6O*LDC19990501-001	Cross reference number to 867 & 810.
RMR*12*39481958690*PO*795.00	LDC Account Number and associated dollar amount
REF*11*3865186	ESP Account Number
REF*6O*LDC19990501-002	Cross reference number to 867 & 810.
RMR*12*3965716927*AJ*-95.00***CS*-95.00	LDC Account Number and associated dollar amount
REF*11*3859175	ESP Account Number
REF*6O*LDC19990501-003	Cross reference number to 867 & 810.

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

EXAMPLE: Scenario #4 - Remittance Only – Negative Remittance (Option 2)

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 Remittance EDI Implementation Guide for instructions on how to resolve a negative remittance older than one business day

BPR*I*0*C*ACH*CCP*****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*ESP COMPANY*1*007909422	Payee Name
ENT*1	
RMR*12*7799621539*PO*300.00	LDC Account Number and associated dollar amount
REF*11*1394959	ESP Account Number
REF*45*2310130586	Old LDC Account Number

REF*6O*LDC19990501-001	Cross reference number to 867 & 810.
RMR*12*39481958690*PO*795.00	LDC Account Number and associated dollar amount
REF*11*3865186	ESP Account Number
REF*6O*LDC19990501-002	Cross reference number to 867 & 810.
RMR*12*3965716927*AJ*-1195.00***CS*-1195.00	LDC Account Number and associated dollar amount
REF*11*3859175	ESP Account Number
REF*6O*LDC19990501-003	Cross reference number to 867 & 810.

Note: There is no associated CCD+ transaction.

Not Making the Other Party Whole Examples

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

BPR*C*1000.00*C*ACH*CTX*01*031100047*DA*1234567***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*ESP COMPANY*1*007909422	Payee Name
ENT*1	
RMR*12*7799621539*PO*300.00	LDC Account Number and associated dollar amount
REF*11*1394959	ESP Account Number
REF*45*2310130586	Old LDC Account Number
DTM*809*19990514	Date customer payment was posted.
RMR*12*39481958690*PO*795.00	LDC Account Number and associated dollar amount
REF*11*3865186	ESP Account Number
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	ESP Account Number
DTM*809*19990514	Date customer payment was posted.

EXAMPLE: Scenario #2 - Payment accompanies Remittance Advice – CTX Transaction (Negative Remittance) – Option 1

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 Remittance EDI Implementation Guide for instructions on how to resolve a negative remittance older than one business day.

BPR*C*-100.00*C*ACH*CTX*01*031100047*DA*	Remittance Advice and Payment Instruction will not be generated and sent because the RMRs do not total to a positive number.
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1234567***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*ESP COMPANY*1*007909422	Payee Name
ENT*1	
RMR*12*7799621539*PO*300.00	LDC Account Number and associated dollar amount
REF*11*1394959	ESP Account Number
DTM*809*19990514	Date customer payment was posted.
RMR*12*39481958690*PO*795.00	LDC Account Number and associated dollar amount
REF*11*3865186	ESP Account Number
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	ESP Account Number
DTM*809*19990514	Date customer payment was posted.

Not Making the Other Party Whole Examples

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

BPR*C*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*ESP COMPANY*1*007909422	Payee Name

Scenario #3 - Part B:

Remittance Only

BPR*I*1000.00*C*ACH*CCP*****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*ESP COMPANY*1*007909422	Payee Name
ENT*1	
RMR*12*7799621539*PO*300.00	LDC Account Number and associated dollar amount
REF*11*1394959	ESP Account Number
REF*45*2310130586	Old LDC Account Number
DTM*809*19990514	Date customer payment was posted.
RMR*12*39481958690*PO*795.00	LDC Account Number and associated dollar amount
REF*11*3865186	ESP Account Number
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	ESP Account Number
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 re-associated.

**EXAMPLE: Scenario #4 - Remittance Only –
Negative Remittance (Option 2)**

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 Remittance EDI Implementation Guide for instructions on how to resolve a negative remittance older than one business day

BPR*I*0*C*ACH*CCP*****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*ESP COMPANY*1*007909422	Payee Name
ENT*1	
RMR*12*7799621539*PO*300.00	LDC Account Number and associated dollar amount
REF*11*1394959	ESP Account Number
REF*45*2310130586	Old LDC Account Number
DTM*809*19990514	Date customer payment was posted.
RMR*12*39481958690*PO*795.00	LDC Account Number and associated dollar amount
REF*11*3865186	ESP Account Number
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	ESP Account Number
DTM*809*19990514	Date customer payment was posted.