

820 Implementation Guidelines

1 Overview

Ariba Network allows suppliers to send invoices to buying organisations in the form of cXML InvoiceDetailRequest documents.

As a service to suppliers preferring to transact via EDI, Ariba Network translates the cXML PaymentRemittanceRequest to the ASC X12 820 Remittance Advice.

Ariba Network implements the 820 using ANSI X12 Version **004010**.

Readers should consult the PaymentRemittance.dtd from the cXML specifications alongside the guidelines for 820 and this document. cXML DTDs and documentation are available at <http://www.cxml.org/>. Readers should also refer to Chapter 7: Settlement in the cXML User's Guide.

2 Enveloping

2.1 Character Encoding

Ariba Network renders outgoing ASC X12 interchanges as ISO-8859-1.

2.2 Interchange and Functional Group Identity

ISA01	Authorization Code Qualifier	00
ISA02	Authorization Code	(blank)
ISA03	Security Code Qualifier	00
ISA04	Security Code	(blank)
ISA05	Sender Id Qualifier	ZZ
ISA06	Sender Identifier	ARIBAEDI
ISA07	Receiver Id Qualifier	(your qualifier)
ISA08	Receiver Identifier	(your identifier)
ISA09	Interchange Date	(YYMMDD)
ISA10	Interchange Time	(HHMM)
ISA11	Control Standards Identifier	U
ISA12	Version	00401
ISA13	Interchange Control Number	(unique control no)
ISA14	Acknowledgment Requested	0 (interchanges are not acknowledged - no TA1 returned)
ISA15	Test Indicator ¹	P or T
ISA16	Sub-Element Separator	> (suggested)

You can use the same ISA qualifier / identifier pair for production and test, or you can use two distinct identifiers.

For ISA05-06, the interchange receiver qualifier / identifier, ISA05 will be **ZZ** and ISA06 will be **ARIBAEDI**. The same interchange id is used for both production and test data. ISA15 is used to distinguish production from test.

GS01	Functional Group Identifier	RA
GS02	Application Sender	Buyer's NetworkId
GS03	Application Receiver	(your value)
GS04	Functional Group Date	CCYYMMDD
GS05	Functional Group Time	HHMM

¹ ISA15 has the final word on whether an interchange is to be processed as test or production.

GS06	Functional Group Control No	(unique control no)
GS07	Agency	X
GS08	Version	004010

The Application Sender Identifier (GS02) should be your supplier NetworkId in the application sender identifier (GS02), but it is not required. As long as ISA05-06 *uniquely* identifies your Supplier NetworkId, GS02 is ignored.

The Application Receiver Identifier (GS03) must be the Buyer's NetworkId. Never include the -T in GS03 for test accounts.

For example:

```
ISA*00*          *00*          *ZZ*ARIBAEDI          *01*123456789
*030430*1152*U*00401*000001234*0*P*>~
GS*RA*AN0100000001*123456789 *20030430*1152*2414*X*004010~
ST*820*24140001~
```

3 Functional Acknowledgements: 997

Ariba Network requires a 997 document to be returned for each functional group.

If you return a positive FA, Ariba Network updates the status of the payment to Acknowledged. A negative FA will update the status to Failed.

Summary 997 documents are required with an explicit AK2 group for each acknowledged document within a functional group. Detailed 997 documents (with AK3 and AK4) are also accepted, but AK3 and AK4 are not processed.

A positive FA sets AK901 (0715) to A. A negative FA sets AK901 to E. The codes are the same at the AK5 level, where AK501 (0717) returns code A or E accordingly.

4 Using this Guideline

The Segment list shows Base Status, which is how it is defined in 004010, and User Status, which shows its requirement for Ariba Network. Unused segments are not shown.

The Element list shows Base Attribute and User Attributes in the same context. User Attributes sometimes alter the element size.

The codes defining Segment and Element usage are:

- M** Mandatory
- R** Recommended (not Mandatory, but its use is preferred)
- D** Dependant (Mandatory if certain conditions are true)
- O** Optional
- X** Conditional on ANSI X12 syntax rules

This guideline should be used in conjunction with the following document:

cXML PaymentRemittance.dtd: Official definition of the PaymentRemittanceRequest document. This is the source data from which the 820 is mapped.

cXML User's Guide, Chapter 6: Settlement: Detailed explanation of the document structure and field usage.

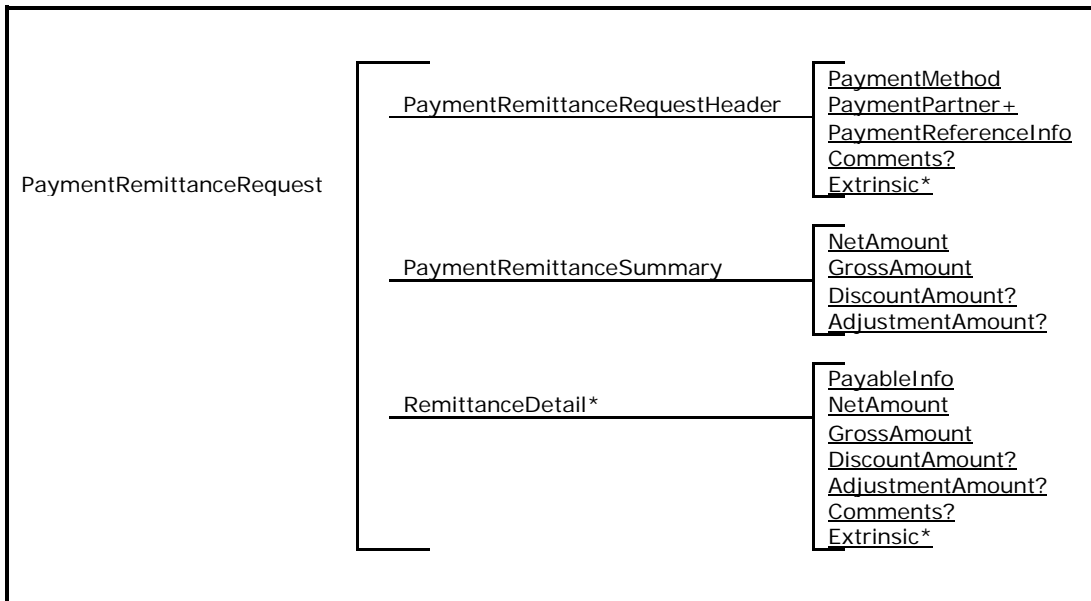
cXML DTDs and documentation can be downloaded from <http://www.cxml.org/>

5 Structure of the Remittance Advice

Ariba Network implements Payment Remittance in the form of the cXML `PaymentRemittanceRequest`. Ariba Network provides this document in EDI format by performing an in-network-translation to an 820 implementation custom tailored to fit the cXML data content. Likewise, the `PaymentRemittanceRequest` was based on the general EDI structure so that the two forms of the document could smoothly integrate.

This section addresses the structure of the `PaymentRemittanceRequest` and how it is translated to the 820.

The following diagram shows the structure of the `PaymentRemittanceRequest` element:



A '+' means the element is required and occurs one or more times, a '?' means the element is optional and may occur once, and a '*' means the element is optional and can occur 0 or more times. An element with no symbol is required and must occur exactly once.

The Header and Summary sections are merged into the 820 header area. Payer, Payee, and Bank identifications are collected from `PaymentPartner` and written to the lead BPR segment (1/020). All `PaymentPartner` Contacts are written to N1 groups (1/070) with their accompanying `IdReference` data written to the N1 embedded REF segment (1/110).

If `RemittanceDetail` is present, then one ENT group (2/010) is produced, with one RMR group (2/150) for each `RemittanceDetail`. `PayableInfo` identifies an invoice, purchase order, or master agreement to which the payment is to be applied.

Extrinsic data is supported and is mapped to REF*ZZ, with the name in REF02 and the data in REF03.

5.1 Header Section

The BPR (1/020) segment is collected from several sources in the `PaymentRemittanceRequestHeader`. It identifies a payment amount (BPR02), a method (BPR04), payer and payee and their respective financial institutions involved, if any. These come from the `PaymentPartner` elements.

The payment method (BPR04) indicates the information required to support the transaction. If the payment method is cash (BPR04='CAS') then the payer and payee are sufficient and there may be an optional receipt number

Each `PaymentPartner` defines one party involved in the payment remittance transaction. The "payer" (N1*PR) and "payee" (N1*PE) are both mandatory. If the payment method directly involves financial institutions (BPR04 = 'ACH' or 'FWT') then "originatingBank" (N1*O1) and "receivingBank" (N1*RB) are also required.

Each `PaymentPartner` contact provides a name and optional address, and optional reference identifiers.

5.2 Detail Section

The `RemittanceDetail` element is optional in `PaymentRemittanceRequest`. If present it can repeat and provides a breakdown of the payment showing how it is to be applied to invoices, purchase orders, or master agreements. Each `RemittanceDetail` can specify any combination of those three. That is, it can specify an invoice and a purchase order, the presumption being that the two are related.

ENT occurs only once, in form (1) `Single/Single`, with `ENT01` set to a constant 1. Multiple business entities are not currently supported by `PaymentRemittanceRequest`. Nor are other payment forms addressed by the ENT sibling groups. Only ENT is used.

Each `RemittanceDetail` group maps onto one RMR group. In RMR, the first of invoice / purchase order / master agreement is specified in `RMR01-02`. If additional documents are specified, they are written to REF segments.

In the example below, invoice `INV-031204-01` is specified in `RMR01-02` and purchase order `P0-031204-01` is specified in `REF*ON` a few segments down.

6 Sample Data

Sample data shows how a complete 820 document is formatted. This is the example from the cXML User's Guide, Chapter 6: Settlement, translated to 820:

```

ISA*00*                *00*                *ZZ*ARIBAEDI          *ZZ*SUPPLIERID
*040310*1420*U*00401*000000001*0*T*>~
GS*RA*BUYERANID*SUPPLIERGSID*20040310*1420*1*X*004010~
ST*820*0001~
BPR*I*2*C*ACH**01*234567890*10*3261382790***01*678902345*10*3882514900*20041010~
TRN*1*PR-031204-01~
REF*EM*PREF-INV-031204-01~
REF*H9*PR-031204-01~
DTM*949*20041010*000000*17~
N1*PR*Buyer~
N3*100 1st Street~
N4*Anywhere*CA*94089*US~
REF*PB*3261382790~
N1*O1*Moose Credit Union~
N3*100 Elk Dr~
N4*Mooseville*CA*94087*US~
REF*01*234567890~
N1*PE*Supplier~
N3*100 Main Street~
N4*Anywhere*CA*94089*US~
REF*PY*3882514900~
N1*RB*Gold Rush National Bank~
N3*100 Bret Harte Road~
N4*Gold Rush*CA*97123*US~
REF*01*678902345~
ENT*1~
RMR*IV*INV-031204-01**2**0.35~
REF*FJ*1~
REF*PO*P0-031204-01~
REF*ZZ*PaymentProposalID*PP-031204-01~
ADX*0.5*CS~
SE*30*0001~
GE*1*1~
IEA*1*000000001~
    
```

7 Technical Support

Ariba Network Support is available to help resolve technical issues with EDI. Suppliers are requested to open cases if they need assistance.

For Ariba Network support contact information, see http://connect.ariba.com/techsupport_contacting.htm?Network

820 Payment Order/Remittance Advice

Functional Group ID=**RA**

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Payment Order/Remittance Advice Transaction Set (820) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to make a payment, send a remittance advice, or make a payment and send a remittance advice. This transaction set can be an order to a financial institution to make a payment to a payee. It can also be a remittance advice identifying the detail needed to perform cash application to the payee's accounts receivable system. The remittance advice can go directly from payer to payee, through a financial institution, or through a third party agent.

Heading:

<u>Page No.</u>	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Base Guide</u>	<u>User Status</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
8	010	ST	Transaction Set Header	M	M	1		
9	020	BPR	Beginning Segment for Payment Order/Remittance Advice	M	M	1		
13	030	NTE	Note/Special Instruction	O		>1		
14	035	TRN	Trace	O		1		c1
15	040	CUR	Currency	O	Must Use	1		c2
16	050	REF	Reference Identification	O		>1		
18	060	DTM	Date/Time Reference	O	Must Use	>1		
LOOP ID - N1							>1	
20	070	N1	Name	O		1		c3
21	080	N2	Additional Name Information	O		>1		
22	090	N3	Address Information	O		>1		
23	100	N4	Geographic Location	O		1		
24	110	REF	Reference Identification	O		>1		
26	120	PER	Administrative Communications Contact	O		>1		

Detail:

<u>Page No.</u>	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Base Guide</u>	<u>User Status</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
LOOP ID - ENT							>1	
27	010	ENT	Entity	O		1		n1, c4
LOOP ID - RMR							>1	
28	150	RMR	Remittance Advice Accounts Receivable Open Item Reference	O		1		c5
30	160	NTE	Note/Special Instruction	O		>1		
31	170	REF	Reference Identification	O		>1		
32	180	DTM	Date/Time Reference	O		>1		
LOOP ID - ADX							>1	
34	210	ADX	Adjustment	O		1		c6
35	220	NTE	Note/Special Instruction	O		>1		

Summary:

<u>Page</u>	<u>Pos.</u>	<u>Seg.</u>	<u>Base</u>	<u>User</u>	<u>Loop</u>	<u>Notes and</u>
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<u>No.</u>	<u>No.</u>	<u>ID</u>	<u>Name</u>	<u>Guide</u>	<u>Status</u>	<u>Max.Use</u>	<u>Repeat</u>	<u>Comments</u>
36	010	SE	Transaction Set Trailer	M	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 CUR segment does not initiate a foreign exchange transaction.
3. The N1 loop allows for name/address information for the payer and payee which would be utilized to address remittance(s) for delivery.
4. ENT09 may contain the payee's accounts receivable customer number.
5. Loop RMR is for open items being referenced or for payment on account.
6. This ADX loop can only contain adjustment information for the immediately preceding RMR segment and affects the amount (RMR04) calculation. If this adjustment amount is not netted to the immediately preceding RMR, use the outer ADX loop (position 080).

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:

Notes:

Example:
 ST*820*0001~

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Base</u>	<u>User</u>
<u>Des.</u>	<u>Element</u>		<u>Attributes</u>	<u>Attributes</u>
ST01	143	Transaction Set Identifier Code	M ID 3/3	M
		Code uniquely identifying a Transaction Set		
		820 Payment Order/Remittance Advice		
ST02	329	Transaction Set Control Number	M AN 4/9	M
		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:

Example:
 BPR*1*2*C*ACH**01*234567890*10*3261382790***01*678902345*10*388251490
 0*20041010~

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
BPR01	305	Transaction Handling Code Code designating the action to be taken by all parties I Remittance Information Only	M ID 1/2	M
BPR02	782	Monetary Amount Monetary amount NetAmount element defines the total net payment amount. PaymentRemittanceRequestSummary / NetAmount / Money	M R 1/18	M
BPR03	478	Credit/Debit Flag Code Code indicating whether amount is a credit or debit C Credit	M ID 1/1	M
BPR04	591	Payment Method Code Code identifying the method for the movement of payment instructions PaymentRemittanceRequestHeader / PaymentMethod@type	M ID 3/3	M

ACH	Automated Clearing House (ACH) PaymentMethod@type="ach"
CAS	Cash PaymentMethod@type="cash"
CCC	Credit Card PaymentMethod@type="creditCard"
CHK	Check PaymentMethod@type="check"
DEB	Debit Card PaymentMethod@type="debitCard"
FWT	Federal Reserve Funds/Wire Transfer - Nonrepetitive PaymentMethod@type="wire"
PBD	Draft PaymentMethod@type="draft"
ZZZ	Mutually Defined Note that this type may be used to represent involvement of third-party payment providers. If used, then NTE*PMT is required to name the payment method being used. PaymentMethod@type="other"

BPR06 506 (DFI) ID Number Qualifier X ID 2/2 O
Code identifying the type of identification number of Depository Financial Institution (DFI)

01	ABA Transit Routing Number Including Check Digits (9 digits) IdReference@domain="abaRoutingNumber"
02	Swift Identification (8 or 11 characters) IdReference@domain="abaRoutingNumber"swiftID"
03	CHIPS (3 or 4 digits) IdReference@domain="chipsID"
04	Canadian Bank Branch and Institution Number To access this code, a PostalAddress in Canada is required. It is the PostalAddress / Country@isoCountryCode="CA" coupled with IdReference@domain="bankNationalID", which activates this mapping. Essentially, a PostalAddress requires one Street, the City, Province, and Country. Branches are often described with an intersection or plaza name, which may be placed in the Street element. IdReference@domain="bankNationalID" and PostalAddress / Country@isoCountryCode="CA"

BPR07 507 (DFI) Identification Number X AN 3/12 O
Depository Financial Institution (DFI) identification number
BPR06-07 is gathered from an IdReference element as part of a Contact for "originating bank". Namely,
PaymentPartner / Contact [@role="originatingBank"] / IdReference
The qualifier in BPR06 is determined from IdReference@domain.

BPR08 569 Account Number Qualifier O ID 1/3 O
Code indicating the type of account

		10	Business Account			
BPR09	508	Account Number		X	AN 1/35	O
		Account number assigned				
		BPR08-09 is gathered from an IdReference element as part of a Contact for "payer". Namely,				
		PaymentPartner / Contact [@role="payer"] / IdReference@domain="bankAccountID"				
		The qualifier in BPR08 is 10, for Business Account.				
BPR12	506	(DFI) ID Number Qualifier		X	ID 2/2	O
		Code identifying the type of identification number of Depository Financial Institution (DFI)				
		01	ABA Transit Routing Number Including Check Digits (9 digits)			
			IdReference@domain="abaRoutingNumber"			
		02	Swift Identification (8 or 11 characters)			
			IdReference@domain="abaRoutingNumber"swiftID"			
		03	CHIPS (3 or 4 digits)			
			IdReference@domain="chipsID"			
		04	Canadian Bank Branch and Institution Number			
			To access this code, a PostalAddress in Canada is required.			
			It is the PostalAddress / Country@isoCountryCode="CA" coupled with IdReference@domain="bankNationalID", which activates this mapping.			
			Essentially, a PostalAddress requires one Street, the City, Province, and Country. Branches are often described with an intersection or plaza name, which may be placed in the Street element.			
			IdReference@domain="bankNationalID" and PostalAddress / Country@isoCountryCode="CA"			
BPR13	507	(DFI) Identification Number		X	AN 3/12	O
		Depository Financial Institution (DFI) identification number				
		BPR12-13 is gathered from an IdReference element as part of a Contact for "receiving bank". Namely,				
		PaymentPartner / Contact [@role="receivingBank"] / IdReference				
		The qualifier in BPR12 is determined from IdReference@domain.				
BPR14	569	Account Number Qualifier		O	ID 1/3	O
		Code indicating the type of account				
		10	Business Account			
BPR15	508	Account Number		X	AN 1/35	O
		Account number assigned				
		BPR14-15 is gathered from an IdReference element as part of a Contact for "payee". Namely,				
		PaymentPartner / Contact [@role="payee"] / IdReference@domain="bankAccountID"				
		The qualifier in BPR14 is 10, for Business Account.				
BPR16	373	Date		O	DT 8/8	O
		Date expressed as CCYYMMDD				
		The date this Payment or Remittance transaction was created. cXML defines this as the				

payment date and should be earlier than the timestamp of the actual remittance advice document.

The full date/time/zone is written to DTM (1/060) with qualifier 949.

PaymentRemittanceRequestHeader@paymentDate

Segment: **NTE** Note/Special Instruction
Position: 030
Loop:
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To transmit information in a free-form format, if necessary, for comment or special instruction
Syntax Notes:
Semantic Notes:
Comments: 1 The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.
Usage Notes: Used/Optional

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
NTE01	363	Note Reference Code	O ID 3/3	M
		Code identifying the functional area or purpose for which the note applies		
		OTH Other Instructions		
			PaymentRemittanceRequestHeader / Comments	
		PMT Payment		
			Required if the payment method code (BPR04) is set to ZZZ, representing a type of "other". NTE*PMT contains the payment method name in NTE02.	
			PaymentRemittanceRequestHeader / PaymentMethod / Description / ShortName	
NTE02	352	Description	M AN 1/80	M
		A free-form description to clarify the related data elements and their content		

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:
Usage Notes: Used/Optional
Notes: Example:
 TRN*1*PR-031204-01~

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
TRN01	481	Trace Type Code	M ID 1/2	M
		Code identifying which transaction is being referenced		
		1 Current Transaction Trace Numbers		
TRN02	127	Reference Identification	M AN 1/30	M
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
		A unique identifier for this PaymentRemittance, generated by the buying organization's system.		
		PaymentRemittanceRequestHeader@paymentRemittanceID		

Segment: **CUR** Currency
Position: 040
Loop:
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify the currency (dollars, pounds, francs, etc.) used in a transaction
Syntax Notes:

- 1 If CUR08 is present, then CUR07 is required.
- 2 If CUR09 is present, then CUR07 is required.
- 3 If CUR10 is present, then at least one of CUR11 or CUR12 is required.
- 4 If CUR11 is present, then CUR10 is required.
- 5 If CUR12 is present, then CUR10 is required.
- 6 If CUR13 is present, then at least one of CUR14 or CUR15 is required.
- 7 If CUR14 is present, then CUR13 is required.
- 8 If CUR15 is present, then CUR13 is required.
- 9 If CUR16 is present, then at least one of CUR17 or CUR18 is required.
- 10 If CUR17 is present, then CUR16 is required.
- 11 If CUR18 is present, then CUR16 is required.
- 12 If CUR19 is present, then at least one of CUR20 or CUR21 is required.
- 13 If CUR20 is present, then CUR19 is required.
- 14 If CUR21 is present, then CUR19 is required.

Semantic Notes:
Comments: 1 See Figures Appendix for examples detailing the use of the CUR segment.
Usage Notes: Mandatory
Notes: Example: CUR*BY*USD~

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
CUR01	98	Entity Identifier Code	M ID 2/3	M
		Code identifying an organizational entity, a physical location, property or an individual		
		BY Buying Party (Purchaser)		
CUR02	100	Currency Code	M ID 3/3	M
		Code (Standard ISO) for country in whose currency the charges are specified		
		PaymentRemittanceRequestSummary / NetAmount / Money@currency		

Segment: **REF** Reference Identification
Position: 050
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:
Usage Notes: Used/Optional
Notes: Examples:

```
REF*EM*PREF-INV-031204-01~
REF*H9*PR-031204-01~
```

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
REF01	128	Reference Identification Qualifier	M ID 2/3	M
		Code qualifying the Reference Identification		
	4N	Special Payment Reference Number PaymentRemittanceRequestHeader@paymentReferenceNumber where PaymentMethod@type in ("creditCard", "debitCard")		
	8I	FEDWIRE Confirmation Number PaymentRemittanceRequestHeader@paymentReferenceNumber where PaymentMethod@type="wire"		
	BAF	Receipt Number PaymentRemittanceRequestHeader@paymentReferenceNumber where PaymentMethod@type="cash"		
	CK	Check Number PaymentRemittanceRequestHeader@paymentReferenceNumber where PaymentMethod@type="check"		
	DN	Draft Number PaymentRemittanceRequestHeader@paymentReferenceNumber where PaymentMethod@type="draft"		
	EM	Electronic Payment Reference Number PaymentRemittanceRequestHeader@paymentReferenceNumber where PaymentMethod@type="ach"		
	H9	Payment History Reference Number Defines information related to an earlier payment made by the buyer. Used in conjunction with DTM*707. PaymentRemittanceRequestHeader / PaymentIDInfo@paymentRemittanceID		
	ZZ	Mutually Defined Text Extrinsic data, where REF02 = Extrinsic@name and REF03 = Extrinsic ANY PaymentRemittanceRequestHeader / Extrinsic		

REF02	127	Reference Identification	X	AN 1/30	M
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
REF03	352	Description	X	AN 1/80	O
		A free-form description to clarify the related data elements and their content			

Segment: **DTM** **Date/Time Reference**
Position: 060
Loop:
Level: Heading
Usage: Optional (Must Use)
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:

Usage Notes:

Notes:

Mandatory
 Example:
 DTM*949*20041010*000000*17~

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
DTM01	374	Date/Time Qualifier	M ID 3/3	M
		Code specifying type of date or time, or both date and time		
		707 Last Payment Made		
		Date of an earlier payment made by the buyer. Used in conjunction with REF*H9.		
		Optional		
		PaymentRemittanceRequestHeader / PaymentReferenceInfo / PaymentIDInfo@paymentDate		
		949 Payment Effective		
		Date and time this Payment or Remittance transaction was created.		
		Required		
		PaymentRemittanceRequestHeader@paymentDate		
DTM02	373	Date	X DT 8/8	M
		Date expressed as CCYYMMDD		
DTM03	337	Time	X TM 4/8	M
		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)		
DTM04	623	Time Code	O ID 2/2	M
		Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow		
		01 Equivalent to ISO P01		
		02 Equivalent to ISO P02		
		03 Equivalent to ISO P03		
		04 Equivalent to ISO P04		
		05 Equivalent to ISO P05		
		06 Equivalent to ISO P06		
		07 Equivalent to ISO P07		
		08 Equivalent to ISO P08		
		09 Equivalent to ISO P09		

10	Equivalent to ISO P10
11	Equivalent to ISO P11
12	Equivalent to ISO P12
13	Equivalent to ISO M12
14	Equivalent to ISO M11
15	Equivalent to ISO M10
16	Equivalent to ISO M09
17	Equivalent to ISO M08
18	Equivalent to ISO M07
19	Equivalent to ISO M06
20	Equivalent to ISO M05
21	Equivalent to ISO M04
22	Equivalent to ISO M03
23	Equivalent to ISO M02
24	Equivalent to ISO M01
AT	Alaska Time
CT	Central Time
ET	Eastern Time
GM	Greenwich Mean Time
HT	Hawaii-Aleutian Time
MT	Mountain Time
NT	Newfoundland Time
PT	Pacific Time
TT	Atlantic Time
UT	Universal Time Coordinate

DTM05 1250 Date Time Period Format Qualifier X ID 2/3 O

Code indicating the date format, time format, or date and time format

UN Unstructured

DTM06 is ISO-8601 format date directly copied from cXML source

DTM06 1251 Date Time Period X AN 1/35 O

Expression of a date, a time, or range of dates, times or dates and times

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

Usage Notes: Used/Optional
Notes: Examples:
 N1*O1*Moose Credit Union~
 N3*100 Elk Dr~
 N4*Mooseville*CA*94087*US~
 REF*01*234567890~
 N1*PR*Buyer~
 N3*100 1st Street~
 N4*Anywhere*CA*94089*US~
 REF*PB*3261382790~

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual	M ID 2/3	M
		O1 Originating Bank Contact@role = "originatingBank"		
		PE Payee Contact@role="payee"		
		PR Payer Contact@role="payer"		
		RB Receiving Bank Contact@role="payee"		
N102	93	Name Free-form name	X AN 1/60	M
N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67)	X ID 1/2	O
		92 Assigned by Buyer or Buyer's Agent		
N104	67	Identification Code Code identifying a party or other code	X AN 2/80	O
		Contact@addressID		

Segment: **N2 Additional Name Information**
Position: 080
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:
Usage Notes: Used/Optional

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
N201	93	Name Free-form name	M AN 1/60	M
N202	93	Name Free-form name	O AN 1/60	O

Segment: **N3** **Address Information**
Position: 090
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Usage Notes: Used/Optional

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
N301	166	Address Information Address information	M AN 1/55	M
N302	166	Address Information Address information	O AN 1/55	O

Segment: **N4 Geographic Location**
Position: 100
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 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.
Usage Notes: Used/Optional
Notes: Example:
 N4*Gold Rush*CA*97123*US~

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
N401	19	City Name Free-form text for city name	O AN 2/30	M
N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O ID 2/2	O
N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O ID 3/15	O
N404	26	Country Code Code identifying the country	O ID 2/3	M

Segment: **REF** Reference Identification

Position: 110

Loop: N1 Optional

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:

Usage Notes: Used/Optional

Notes: Captured from PaymentPartner / IdReference, with qualifiers chosen according to Contact@role and IdReference@domain.

The four bank related references are copied to BPR06-07 and BPR12-13 depending on the Contact@role being "originatingBank" or "receivingBank".

The two bank account related references are copied to BPR09 and BPR15 depending on the Contact@role being "payer" or "payee".

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
REF01	128	Reference Identification Qualifier	M ID 2/3	M
		Code qualifying the Reference Identification		
		01 American Bankers Assoc. (ABA) Transit/Routing Number (Including Check Digit, 9 Digits) Contact@role in ("originatingBank", "receivingBank") and IdReference@domain = "abaRoutingNumber"		
		02 Society for Worldwide Interbank Financial Telecommunication (S.W.I.F.T.) Identification (8 or 11 Characters) Contact@role in ("originatingBank", "receivingBank") and IdReference@domain = "swiftID"		
		03 Clearing House Interbank Payment System (CHIPS) Participant Number (3 or 4 Digits) Contact@role in ("originatingBank", "receivingBank") and IdReference@domain = "chipsID"		
		04 Canadian Financial Institution Branch and Institution Number Contact@role in ("originatingBank", "receivingBank") and IdReference@domain = "bankNationalID" and PostalAddress / Country@isoCountryCode = "CA"		
		PB Payer's Financial Institution Account Number for Check, Draft, or Wire Payments; Originating Company Account Number for ACH Transfers Contact@role = "payer" and IdReference@domain = "bankAccountID" This reference is copied to BPR09		
		PY Payee's Financial Institution Account Number for Check, Draft or Wire Payments; Receiving Company Account Number for ACH Transfer Contact@role = "payee" and IdReference@domain = "bankAccountID" This reference is copied to BPR15		
REF02	127	Reference Identification	X AN 1/30	M

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

Segment: **PER Administrative Communications Contact**
Position: 120
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax Notes:

- 1 If either PER03 or PER04 is present, then the other is required.
- 2 If either PER05 or PER06 is present, then the other is required.
- 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:
Comments:
Usage Notes: Used/Optional
Notes: Example:
 PER*CN*default*TE*14085551212~

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named CN General Contact	M ID 2/2	M
PER02	93	Name Free-form name	O AN 1/60	O
PER03	365	Communication Number Qualifier Code identifying the type of communication number Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2	O
PER04	364	Communication Number Complete communications number including country or area code when applicable	X AN 1/80	O
PER05	365	Communication Number Qualifier Code identifying the type of communication number Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2	O
PER06	364	Communication Number Complete communications number including country or area code when applicable	X AN 1/80	O
PER07	365	Communication Number Qualifier Code identifying the type of communication number Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2	O
PER08	364	Communication Number Complete communications number including country or area code when applicable	X AN 1/80	O

Segment: **ENT** Entity

Position: 010

Loop: ENT Optional

Level: Detail

Usage: Optional

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 any of ENT02 ENT03 or ENT04 is present, then all are required.
- 2 If any of ENT05 ENT06 or ENT07 is present, then all 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.
 This segment also allows for the transmission of a unique reference number that is meaningful between the entities.

Usage Notes: Used/Optional

Notes: Example: ENT*1~

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Base</u>	<u>User</u>
<u>Des.</u>	<u>Element</u>		<u>Attributes</u>	<u>Attributes</u>
ENT01	554	Assigned Number	O N0 1/6	M
		Number assigned for differentiation within a transaction set		

Segment: **RMR** Remittance Advice Accounts Receivable Open Item Reference

Position: 150

Loop: RMR Optional

Level: Detail

Usage: Optional

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.

Usage Notes: Used/Optional

Notes: Example:
RMR*IV*INV-031204-01**2**0.35~

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
RMR01	128	Reference Identification Qualifier Code qualifying the Reference Identification	X ID 2/3	M
		AH Agreement Number Used with DTM*LEA for master agreement date. RemittanceDetail / PayableInfo / PayableMasterAgreementInfo / MasterAgreementIDInfo@agreementID		
		IV Seller's Invoice Number Used with DTM*003 for the invoice date. RemittanceDetail / PayableInfo / PayableInvoiceInfo / InvoiceIDInfo@invoiceID		
		PO Purchase Order Number Used with DTM*004 for the PO date. RemittanceDetail / PayableInfo / PayableOrderInfo / OrderIDInfo@orderID		
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	M
RMR04	782	Monetary Amount Monetary amount RemittanceDetail / NetAmount / Money	O R 1/18	O
RMR05	782	Monetary Amount Monetary amount RemittanceDetail / GrossAmount / Money	O R 1/18	O

RMR06	782	Monetary Amount	O	R 1/18	O
		Monetary amount			
		RemittanceDetail / DiscountAmount / Money			

Segment: **NTE** Note/Special Instruction
Position: 160
Loop: RMR Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To transmit information in a free-form format, if necessary, for comment or special instruction
Syntax Notes:
Semantic Notes:
Comments: 1 The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.
Usage Notes: Used/Optional

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
NTE01	363	Note Reference Code	O ID 3/3	M
		Code identifying the functional area or purpose for which the note applies		
		CBH	Monetary Amount Description	
			RemittanceDetail / AdjustmentAmount / Comments	
		PMT	Payment	
			RemittanceDetail / Comments	
NTE02	352	Description	M AN 1/80	M
		A free-form description to clarify the related data elements and their content		

Segment: **REF** Reference Identification
Position: 170
Loop: RMR Optional
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:
Usage Notes: Used/Optional
Notes: Examples:

```
REF*FJ*1~
REF*PO*P0-031204-01~
REF*ZZ*PaymentProposalID*PP-031204-01~
```

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification	M ID 2/3	M
		AH Agreement Number Used with DTM*LEA for master agreement date RemittanceDetail / PayableInfo / PayableInvoiceInfo / PayableMasterAgreementInfo / MasterAgreementIDInfo@agreementID		
		FJ Line Item Control Number A unique number assigned to each charge line used for tracking purposes RemittanceDetail@lineNumber		
		PO Purchase Order Number Used with DTM*004 for the order date. RemittanceDetail / PayableInfo / PayableInvoiceInfo / PayableOrderInfo / OrderIDInfo@orderID		
		ZZ Mutually Defined RemittanceDetail / Extrinsic		
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	O
REF03	352	Description A free-form description to clarify the related data elements and their content	X AN 1/80	O

Segment: **DTM** **Date/Time Reference**
Position: 180
Loop: RMR Optional
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:

Usage Notes: Used/Optional

Notes:

Example:
 DTM*003*20040930*111500*17~

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time	M ID 3/3	M
		003 Invoice Invoice date. Used with RMR*IV or REF*IV for invoice number		
		004 Purchase Order Purchase order date. Used with RMR*PO or REF*PO for purchase order number.		
		LEA Letter of Agreement Master agreement date. Used with RMR*AH or REF*AH for master agreement number.		
DTM02	373	Date Date expressed as CCYYMMDD	X DT 8/8	M
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)	X TM 4/8	M
DTM04	623	Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	O ID 2/2	M
		01 Equivalent to ISO P01		
		02 Equivalent to ISO P02		
		03 Equivalent to ISO P03		
		04 Equivalent to ISO P04		
		05 Equivalent to ISO P05		
		06 Equivalent to ISO P06		
		07 Equivalent to ISO P07		
		08 Equivalent to ISO P08		
		09 Equivalent to ISO P09		
		10 Equivalent to ISO P10		
		11 Equivalent to ISO P11		

12	Equivalent to ISO P12
13	Equivalent to ISO M12
14	Equivalent to ISO M11
15	Equivalent to ISO M10
16	Equivalent to ISO M09
17	Equivalent to ISO M08
18	Equivalent to ISO M07
19	Equivalent to ISO M06
20	Equivalent to ISO M05
21	Equivalent to ISO M04
22	Equivalent to ISO M03
23	Equivalent to ISO M02
24	Equivalent to ISO M01
AT	Alaska Time
CT	Central Time
ET	Eastern Time
GM	Greenwich Mean Time
HT	Hawaii-Aleutian Time
MT	Mountain Time
NT	Newfoundland Time
PT	Pacific Time
TT	Atlantic Time
UT	Universal Time Coordinate

DTM05	1250	Date Time Period Format Qualifier	X	ID 2/3	O
		Code indicating the date format, time format, or date and time format			
		UN Unstructured			
DTM06	1251	Date Time Period	X	AN 1/35	O
		Expression of a date, a time, or range of dates, times or dates and times			

Segment: **ADX Adjustment**
Position: 210
Loop: ADX Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To convey accounts-payable adjustment information for the purpose of cash application, including payer-generated debit/credit memos
Syntax Notes: 1 If either ADX03 or ADX04 is present, then the other is required.
Semantic Notes: 1 ADX01 specifies the amount of the adjustment and must be signed if negative. If negative, it reduces the payment amount; if positive, it increases the payment amount.
 2 ADX02 specifies the reason for claiming the adjustment.
 3 ADX03 and ADX04 specify the identification of the adjustment.
Comments:
Usage Notes: Used/Optional
Notes: Example: ADX*0.5*CS~

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
ADX01	782	Monetary Amount Monetary amount RemittanceDetail / AdjustmentAmount / Money	M R 1/18	M
ADX02	426	Adjustment Reason Code Code indicating reason for debit or credit memo or adjustment to invoice, debit or credit memo, or payment CS Adjustment	M ID 2/2	M

Segment: **NTE** Note/Special Instruction
Position: 220
Loop: ADX Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To transmit information in a free-form format, if necessary, for comment or special instruction
Syntax Notes:
Semantic Notes:
Comments: 1 The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.
Usage Notes: Used/Optional
Notes: Optional description for the adjustment amount.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
NTE01	363	Note Reference Code	O ID 3/3	M
		Code identifying the functional area or purpose for which the note applies		
		CBH Monetary Amount Description		
NTE02	352	Description	M AN 1/80	M
		A free-form description to clarify the related data elements and their content		
		RemittanceDetail / AdjustmentAmount / Description		

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.
Notes: Example: SE*29*0001~

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
SE01	96	Number of Included Segments	M N0 1/10	M
		Total number of segments included in a transaction set including ST and SE segments		
SE02	329	Transaction Set Control Number	M AN 4/9	M
		Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		