

Implementation Guide to Payment Order/Remittance Advice Message

EDI 820 Version 4010

Description: 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.

Purpose of Payment Order/Remittance Advice Message EDI 820

The Payment Order/Remittance Advice EDI 820 message allows you to automate the exchange of payment details and payment to CN directly or through your bank. There are three EDI payment options:

- 1. Remittance with Payment, sent through your bank to CN
- 2. Remittance advice only, sent directly to CN (payment is made independently)
 - A. Remittance Advice sent through a VAN
 - B. Remittance Advice sent through secured FTP
- 3. Payment only, sent through your bank to CN

Throughout this document these will be referred to as Option 1, Option 2A & 2B and Option 3.

Other electronic payment options, such as eBill Service (a CN One eBusiness tool) are described on the CN website at www.cn.ca.

EDI Version & Guidelines

This document describes the implementation of EDI 820 payment details using ANSI version 3020 to 4010. The actual mapping requirements of version 4010 is contained in this Implementation Guide available on the website at www.cn.ca/guides

This Payment Order/Remittance Advice EDI 820, version 004010, closely complies with the official published Guidelines of American National Standards Institute. US Dollar Payments are handled through the ACH CTX (Automated Clearing House Corporate Trade Exchange) network.

Canadian Dollar payments are handled through the Canadian banking network.

Formats and Options

It is entirely the responsibility of the Sender of the 820 to ensure that messages produced meet the descriptions and requirements set out in this document. Formats other than those presented in this guide must be reviewed with your CN representative prior to implementation.

Connection Options

CN has direct connection with 3 VAN's (Value Added Networks). They are GXS, Transentric, and Kleinschmidt (KNSX). Interconnection to other VANs is also available. Exchange through secured FTP is now available at CN and is free of charge to customers. Remittance details sent via FTP should conform to EDI 820 Standards.

Connection options to transmit information to your Bank may be different, and are not covered in this document.

Message Timing

Remittance Advice messages are accepted at all times of the day so you can send them as soon as your process completes the preparation of the file.

All Payments (options 1 and 3) sent by the bank to CN prior to 20:00 (Eastern Standard Time) are processed by CN in a batch job on the same business day.

For Option 2, the payment is only applied to your CN account the day after both payment and remittance details have been received. Remittance details should be received by CN prior to the payment.

Payment Options

If you are selecting option 1 above, all Remittance Details, as well as the Payment Order, will be transmitted to your bank. The bank will then forward Remittance details to CN and debit your account in favor of CN.

If you are selecting option 2 above, then you must make payment to CN in another transaction. This transaction must match the total amount stated in the EDI 820 detail transmission. CN's standard setup accepts payment details referencing invoice numbers only. Other payment detail reference formats are available upon request.

If you are selecting option 3, the payment order will be transmitted to the bank and the bank will forward the file to CN and debit your account in favor of CN.

Please note that CN still requires the details to be sent electronically for option 3. There is a manual transaction fee on details that have been forwarded non-electronically such as email, fax or other paper remittance.

Canadian and US Dollar payments must be handled in separate transactions if you are selecting option 1 and option 3. They can be handled in the same transaction for option 2.

CN Contact

CN provides an email address for Freight Payment inquiries RMGEC@cn.ca The EDI Onboarding team email address is EDIMGR@cn.ca. You can also visit us at www.cn.ca.

Getting Started

To begin the process of implementation you should do the following:

- 1. Notify us at EDIMGR@cn.ca that you want to Send Payment Orders or Remittance Advice using EDI. This message should include your full company name and location, as well as both an Accounts Payable and EDI Technical contact.
- 2. CN will then assign someone to work with you on the implementation
- 3. A review and walkthrough of the Mapping Guide and this Implementation Guide will facilitate understanding of the data and requirements.
- 4. Technical details must be resolved such as the Value Added Network to be used, and the sender and receiver IDs.
- 5. CN supports a fully functional test system for technical and business validation of the exchange.

Using the Mapping Guide

Each Segment and Data Element in the transaction is identified in Segment and Data element order. The following information is available for each:

- Element Code, this is the Data Segment + position within the segment
- Element Number, this is the ANSI reference to the data contained in this position
- Element Name, the name of the data
- Element Type, the ANSI designation for the Data Elements
- Element Length, showing the Minimum/Maximum length of the data
- Required, shows the Mandatory, Conditional, or Optional indication for this information
- Description, notes on CN's usage of this data element, including accepted values

Sample EDI 820 transmission: (Cheque with Separate Payment Details)

*250124*1031*U*00401*000000382*0*P*>

ISA*00* *00* *ZZ*SENDERID *02*CN GS*RA*SENDERID*CN*20250124*1031*382*X*004010 ST*820*0372 BPR*I*1625.04*C*CHK TRN*1*PAYMENT REFERENCE NUMBER **CUR*PR*CAD** REF*CK*001970 DTM*097*20250124 N1*PE*CANADIAN NATIONAL RAILWAY N1*PR*COMPANY ABC N3*PO BOX 12345 ENT*1 RMR*IV*12345678**509.24*509.24*0 REF*EQ*CNRU123456 DTM*011*20180411 ENT*1 RMR*IV*12345679**614.8*614.8*0 REF*EQ*GATX123456 DTM*011*20180410 ENT*1 RMR*IV*12345680**501*501*0 REF*EQ*CN649332 DTM*011*20240328 SE*26*0372 GE*1*382 IEA*1*00000382

Sample EDI 820 transmission: (ACH CTX)

ISA*00* *00* *ZZ*SENDERID *02*CN *250124*1031*U*00401*000000382*0*P*>

GS*RA*SENDERID*CN*20250124*1031*382*X*004010

ST*820*000000044

BPR*C*12674.24*C*ACH*CTX*01*PAYOR BANK NUMBER**PAYOR BANK ACCOUNT NUMBER***01*CN BANK

NUMBER*DA*CN ACCOUNT NUMBER*20060527

TRN*1*PAYMENT REFERENCE NUMBER

CUR*PR*USD

REF*RR*0002200605260652249300024

N1*PR*COMPANY ABC

N1*PE*CANADIAN NATIONAL RAILWAY

ENT*1

RMR*IV*012345681**1938.13*1938.13

DTM*003*20250116

ENT*2

RMR*IV*012345682**1938.13*1938.13

DTM*003*20250116

ENT*3

RMR*IV*012345683**2932.66*2932.66

DTM*003*20250117

ENT*4

RMR*IV*012345684**2932.66*2932.66

DTM*003*20250119

ENT*5

RMR*IV*012345685**2932.66*2932.66

DTM*003*20060522

SE*27*000000044

GE*1*615106036

IEA*1*615106033

Sample EDI 820 transmission: (Payment Only)

IEA*A*1*614312049

ISA*00* *00* *ZZ*SENDERID *02*CN *250124*1031*U*00401*000000382*0*P*> GS*RA*SENDERID*CN*20250124*1031*382*X*004010 ST*820*000000007 BPR*D*123701.52*C*X12**04*PAYOR BANK NUMBER**PAYOR BANK ACCOUNT NUMBER***04*CN BANK NUMBER*DA*CN ACCOUNT NUMBER*060523 TRN*1*PAYMENT REFERENCE NUMBER REF*RR*12345678901253 N1*PR*COMPANY ABC N1*PE*CANADIAN NATIONAL RAILWAYS **N2*FINANCE DEPT.** N3*PO BOX 8100 N4*MONTREAL*QC SE*15*000000007 GE*1*614312050

ISA Segment: Interchange Control Header

ISA*00*	*00* *ZZ*SENDERID *02*C	*250124*1031*U*00401*000000382*0*P*>		
Ref. Des.	Name	Data Element	Attribu	ntes
ISA01	Authorization Information Qualifier	I01	ID	2/2
ISA02	Authorization Information (Ten spaces)	I02	AN	10/10
ISA03	Security Information Qualifier	I03	ID	2/2
ISA04	Security Information (Ten spaces)	I04	AN	10/10
ISA05	Interchange ID Qualifier	I05	ID	2/2
ISA06	Interchange Sender ID (SENDERID - fill out field with spaces)	I06	AN	15/15
ISA07	Interchange ID Qualifier (If RR SCAC use 02)	I05	ID	2/2
ISA08	Interchange Receiver ID (CN- fill out field with spaces)	I07	AN	15/15
ISA09	Interchange Date (YYMMDD)	I08	DT	6/6
ISA10	Interchange Time (HHMM)	I09	TM	4/4
ISA11	Repetition Separator (Suggest "^")	I65		1/1
ISA12	Interchange Control Version Number (Value 00401)	I11	ID	5/5
ISA13	Interchange Control Number (a control number assigned by sender)	I12	N0	9/9
ISA14	Acknowledgment Requested (0 = none requested)	I13	ID	1/1
ISA15	(1= requested) Usage Indicator (P = Production) (T = Test)	I14	ID	1/1
ISA16	Component Element Separator (Suggest ":")	I15	AN	1/1

GS Segment: Functional Group Header

GS*RA*SENDERID*CN*20250124*1031*382*X*004010

Ref. Des.	Name	Data Element	Attribut	es
GS01	Functional Identifier Code (RA= Payment Order/Remittance Advice (8	479 20))	ID	2/2
GS02 GS03 GS04 GS05 GS06	Application Sender's Code Application Receiver's Code Date (CCYYMMDD) Time (HHMM) Group Control Number (Assigned number originated and maintained	142 124 373 337 28 d by the sender)	AN AN DT TM	2/15 2/15 8/8 4/6 1/9
GS07 GS08	Responsible Agency Code (X = Accredited Standards Committee X12) Version / Release / Industry Identity (CN is using version 004010 of the X12 ED	480	ID AN	1/2 1/12

ST Segment: Transaction Set Header

To indicate the start of a transaction set and to assign a control number

ST*820*0372

Ref. Des.	Name	Data Element	Attributes		
ST01 ST02	Transaction Set Identifier Code Transaction Set Control Number (Sequential control number generated by Co	143 329 ustomer)	ID AN	3/3 4/9	

BPR Segment: Beginning Segment for Payment Order / Remittance Advice - Mandatory

BPR*I*1625.04*C*CHK

Ref. Des.	Name	Data Element	Attribut	tes
BPR01	Transaction Handling code (I=Remittance Information Only) (D=Payment Only) (C or X=Payment accompanies remittance	305 Advice)	ID	1/1
	1	,		
BPR02	Monetary amount	782	R	1/15
DDD02	(Amount paid)	470	ID	1/15
BPR03	Credit/Debit Flag Code (C=Credit)	478	ID	1/15
BPR04	Payment method ID	591	ID	3/3
2110	(ZZZ=\$CDN EFT Payments) (NON=Non-Payment Data) (X12=X120			
	(CHK=Check)			
BPR05	Payment Format	812	ID	1/10
	(CTX= \$US Payments)			
BPR06	DFI ID no. qualifier	506	ID	2/2
	(04 = \$C Payments)			
DDD07	(01=\$US Payments) DFI ID no.	507	AN	3/12
DI KU7	(Payer Bank Number (Transit))	307	AIN	3/12
BPR08	Acct Number Qual. Code	896	ID	2/2
Direc	(Not used)	0,0	12	2, 2
BPR09	Account no.	508	AN	1/35
	(Payor Bank Account Number)			
BPR10	Originating company ID no.	509	AN	10/10
	(Not used)			
BPR11		510	AN	9/9
	Supplemental code			
DDD12	(Not used)	506	ID	2/2
BPR12	DFI ID no. qualifier (04=\$C Payments)	506	ID	2/2
	(01=\$US Payments)			
BPR13	DFI ID no.	507	AN	3/12
211110	(CN Bank Number (Transit)		111	J, 12
BPR14	Acct Number Qual. Code	896	ID	2/2
	(Not used)			
BPR15	Account no.	508	AN	1/35
	(CN Account Number)			
BPR16		513	DT	8/8
	(Effective Payment Date)			

NOTE: Data Elements BPR06, BPR07, BPR09, BPR12, BPR13, BPR15 are Mandatory when Transmitting Payment Order to a Banking Institution

TRN Segment: Trace - Mandatory

TRN*1*PAYMENT REFERENCE NUMBER

Ref. Des.	Name	Data Element	Attribut	es
TRN01	Trace Type Code (1=Current Transaction Trace Number)	481	ID	1/2
TRN02	Reference Number (Transaction Trace Number)	127	AN	1/30
TRN03	Originating Company ID (Not used)	509	AN	10/10
TRN04	Reference Identification (Not used)	127	AN	1/30

CUR Segment: Currency - Mandatory

CUR*PR*CAD

Ref. Des.	Name	Data	a Element Attr	Attributes		
CUR01	Entity ID (PR=for Payer)	098	ID	2/2		
CUR02	Currency code (USD=US Dollars) (CAD=Canadian Dollars)	100	ID	3/3		

REF Segment: Reference Identification - Mandatory

REF*CK*001970 REF*EQ*CNRU123456 REF*EQ*GATX123456 REF*EQ*CN649332

Ref. Des.	Name	Data Element	Attribu	ites
REF01	Reference identification qualifier For Non-Payment 820 (CK=Check Number) (TN=Transaction Ref #) (EM=Electronic Payment Ref#) (EQ=Equipment Initials) (WY=Waybill Number) (BM=Bill of Lading Number)	128	ID	2/2
REF02	Reference identification (Reference Number)	127	AN	1/30
REF03	Description (Not used)	352	AN	1/80

DTM Segment: Date/Time Reference - Optional

DTM*097*20250124 DTM*011*20250111

Ref. Des.	Name	Data Element	Attribu	tes
DTM01	Date / Time qualifier (097=for transaction creation) (011=Shipment Date)	374	ID	3/3
DTM02	(003=Invoice Date) Date (Transmission Date) Version 4010 or Higher - YYYYMMDD Lower than 4010 - YYMMDD	373	DT	8/8
DTM03		337	TM	4/6
DTM04	(Not used) Time code (Not used)	623	ID	2/2
DTM05	(Not used) Century	624	ID	2/2

N1 Segment: Name - Mandatory

N1*PE*CANADIAN NATIONAL RAILWAY N1*PR*COMPANY ABC

Ref. Des.	Name	Data Element	Attrib	utes
N101	Entity ID code (PR=Payor - Mandatory)	98	ID	2/2
N102	(PE=Payee - Optional) Name (When N101 = PR Payor Name show	93 ald be consistent in every	AN 820 trai	1/35 nsmission from the customer to CN)
N103	ID code qualifier (Not Used)	66	ID	1/2
N104	ID code (DUNS Number)	67	ID	2/17

N3 Segment: Address Information - Optional

N3*PO BOX 12345

Ref. Des.	Name	Data Element	Attributes		
N301	Address (Street Address)	166	AN	1/35	

ENT Segment: Entity - Optional

ENT*1

Ref. Des.	Name	Data Element	Attributes	
ENT01	Assigned Number	554	N0	1/6

RMR Segment: Remittance Advice Accounts Receivable Open Item Reference - Mandatory

RMR*IV*12345678**509.24*509.24*0 RMR*IV*12345679**614.8*614.8*0 RMR*IV*12345680**501*501*0

Ref. Des.	Name	Data Element	Attribut	es
RMR01	Reference no. Qualifier (IV,CN,OI,FR=CN Invoice Number) (EQ=Equipment Initials & Number) (WY=Waybill Number) (BM=Bill of Lading Number) (CM=Credit Memo)	128	ID	2/2
RMR02	Reference no. Note: can use CN Credit Note Number in th	127 is field	AN	1/30
RMR03	Payment Action Code (Not used)	482	ID	2/2
RMR04	Monetary Amount (Amount Paid)	782	R	1/15
	Note: Credit amounts must be negative unle	ss CM quanner us	sea	
RMR05	Total Credit/Debit Amount (Not used)	777	R	1/15
RMR06	Discounted Amount Taken (Not used currently)	780	R	1/15

SE Segment: Transaction Set Trailer

SE*26*0372

Ref. Des.	Name	Data Element	Attributes		
SE01	Number of Included Segments (Includes ST and SE segments)	96	N0	1/10	
SE02	Transaction Set Control Number (Repeated from ST segment ST02)	329	AN	4/9	

GE Segment: Functional Group Trailer

GE*1*382

Ref. Des.	Name	Data Element	Attributes		
GE01 GE02	Number of Transaction Sets Included Group Control Number (Repeated from GS segment GS06)	97 28	N0 N0	1/6 1/9	

IEA Segment: Interchange Control Trailer

IEA*1*00000382

Ref. Des.	Name	Data Element	Attributes		
	Number of included Functional Groups Interchange Control Number (Same number as ISA13)	I16 I12	N0 N0	1/5 9/9	