

ACH Direct Deposits (PDS) Service

RBC Automated Clearing House ACH094 Credit File Format Specification

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General Information

Summary

RBC Automated Clearing House (ACH) format is used by banks and clients in the United States. This format can also be used to send Canadian or U.S. dollar electronic payments destined to Canadian Banks and/or electronic U.S. dollar payments to a U.S. bank, and requiring a currency conversion. A mixture of electronic USD payments and CAD payments can be part of the same file, however all payments in a single batch must be for the same currency.

Client who are sending payments to accounts in the United States and have been approved to process Cross Border Payment <u>must</u> use this file format.

Format and Organization

ACH standard records are transmitted via telecommunication networks between participants. Characters used in inter-regional ACH records are restricted to 0-9, A-Z, blank and seven special characters (# - \$. & * ,). Any other characters are not to be used. For payments destined to the USA, the USA ACH Network cannot handle French Characters. If French Characters are received for payments destined to the USA, when RBC processes the cross border payment, the system will replace the French Character with a blank space.

Logical files must consist of logical records in sequence of:

- Header Record, type 1
- Company/Batch Header Record, type 5
- Entry Detail Record, type 6
- Addenda Records, type 7. Multiple Addenda records are mandatory for payments destined to the USA
- Control/Batch Control Record, type 8
- File Control Record, type 9

Separate batches are required for IAT (International ACH Transactions). Separate batches are also required for U.S. dollar payments and Canadian payments. If you are sending a mixture of payments in the same file, the input should be as follows:

- Header Record type 1
- IAT Company/Batch Header Record Type 5
 SEC = IAT
 - IAT Entry Detail Record Type 6
 - 1st Addendum Record Type 7-10
 - 2nd Addendum Record Type 7-11
 - 3rd Addendum Record Type 7-12
 - 4th Addendum Record Type 7-13
 - 5th Addendum Record Type 7-14
 - 6th Addendum Record Type 7-15
 - 7th Addendum Record Type 7-16
- Company /Batch Control Record- type 8
- Company/Batch Header Record Type 5 SEC = CCD or PPD
 - Entry Detail Record Type 6
 - Entry Detail Record Type 6

- Company /Batch Control Record- type 8
- File Control Record type 9

Multiple logical files can be submitted on a physical transmission.

Basic Specifications

- Input must conform to the Automated Clearing House (ACH) Record Descriptions (94 characters per record)
- All fields on the records have an indicator as to their format:
 - (N) = Numeric
 - (AN) = Alphanumeric
- All numeric fields must be unsigned and right justified and zero filled.
- Alphanumeric fields shall be left justified and blank filled.
- All unused fields should have an initial value of zeros (11110000 binary code EBCDIC or 00110000 binary code ASCII), if numeric, or spaces (01000000 binary code EBCDIC or 00110000 binary code ASCII), if alphanumeric.

Currency

- Under the Company/Batch Header Record, the Destination Currency can be Canadian or US Dollars.
- If the "Destination Currency" field is "blank" the currency will default to the currency of the service.
- If the "Destination Currency" field is other than CAD, or USD, or Blank, the currency will default to the currency of the service.

NOTES:

- All payments in a single batch must be for the same currency.
- A batch can only contain one transaction service type. A file may contain many similar service type batches.

Use of Client Numbers in File

- Client with No Subsidiaries (Centralized) All basic records must have the same subsidiary number (0000) as the header record.
- Operating Subsidiaries All basic records must have the same subsidiary number as the header record.
- **Non-operating Subsidiaries** -The header and trailer must be the Parent 6-digit number assigned plus 0000. Each basic record may have the last 4 digits different, depending on where the record would be returned.

Destination Country

The financial institution on which the item is drawn can be in Canada or the United States.

When payment transactions are destined for a U.S. financial institution:

- The destination currency must be USD. To avoid currency conversion, always use a USD ACH Direct Deposit Service (PDS - USD).
- U.S. bank identification number:
 - First four positions TTTT = transit routing and ABA number

- Second four positions AAAA = financial institution number
- Ninth position R = transit routing code

"Destination Country " field is "Mandatory".

Account Numbers

The maximum length for a savings or chequing account number drawn on a Canadian financial institution is 12 digits even though ACH format will accept a length of 35. The Canadian Payments Association (CPA) sets this 12-digit restriction.

The maximum length of an account number drawn on an U.S. financial institution is 17 digits.

Account numbers must be left justified. Do not zero fill. Input only the significant digits.

Client Number Format

This format requires the use of a ten-digit client number, comprised of six digits assigned by RBC and four digits assigned either by RBC (0000) or for Operating and Non-Operating Subsidiaries - defined by the client to identify a subsidiary. This information is called the Client Number or Originator Identification Number.

File Transmission Routing Records

Please refer to Appendix 3 at the end of this document for details on generating the Routing Records for transmission methods such as RBC Express File Transfer, Web File Transfer and FTP SSL.

For Dedicated and Private Network Solutions, such as Connect:Direct and SWIFT NetFile Act, please ensure you are in contact with RBC's Client Connectivity Team directly.

Cross Border Payment Processing

All payments being sent across the border to the United States must be sent using the Standard Entry Class Code - IAT. They must also be formatted in IAT as well. The IAT format contains additional addenda records which need to be provided with the payment in order to meet screening regulations. Clients will have the ability using this format to submit:

- 1. Payments destined to USA only that originate in Canada.
- 2. Payments destined to Canadian banks only that originate in Canada.
- 3. Payments destined to Canadian Banks & USA Banks that originate in Canada.

The IAT Company Batch Header Record and associated addendum records have been modified to also accommodate payments that are destined to Canadian Banks. The originator and recipient addressing information is currently not required for payments destined to Canadian Banks. The following format has been modified to accommodate these records if submitted with your input file. RBC's system will accept the addendum records but will not pass them along to the Canadian receiving bank.

IAT Format - Originator & Receiver Name Format

To ensure that payments are not rejected or processing is not delayed, formatting of the name record fields should follow these best practices:

a. Always use the legal name of the Originator or Receiver

b. If the legal name is longer than 35 characters, the first 35 characters must be used.

Example: 123789 Canada Limited O/A Joe's Bowling Alley

Should be input as: 123789 Canada Limited O/A Joe's Bow

c. Abbreviations or short forms should not be used

Example: Use: Mickey Mouse District School Board

Do Not Use: MMDSB

IAT Format - Originator & Receiver Address Format.

To ensure that payments are not rejected by the receiving bank or processing is not delayed, formatting of the address records is as follows:

- a. All segments of the address fields be provided and correct formatting is used. Incorrect formatting may result in the payment being rejected by the receiving bank
- b. Each field must be left justified.
- c. Do not include leading/trailing spaces.
- d. Do not insert spaces or commas between the data elements.
- e. Hotels and/or Motels addresses are not permitted unless it is the permanent address of the receiver.
- f. Addresses for all Originators and/or Receivers must be the physical street address. Every effort on your part must be made to obtain the physical/street address. Use of a PO Box addresses will be reported on your Warnings Report.
- g. **Mandatory** use of the 2 digit ISO Country Codes.

 http://www.iso.org/iso/country_codes/iso_3166_code_lists/country_names_and_code_elements
- h. Recommended where possible to use the 2 digit ISO Province or State codes.
- i. Mandatory Originator or Receiver City and Province or State
 - Data Elements must be separated by an asterisk * and must end with a backslash \.
 - Examples: MONTREAL*QC\ ATLANTA*GA\ Reminder – no leading spaces, left justify.
- j. Originator or Receiver Country and Postal or Zip Code
 - Data Elements must be separated by an asterisk * and must end with a backslash \.
 - Examples: CA*A1B2C3\ US*123456789\
 - In some cases, the postal/zip code may be unknown or not applicable.
 - If the last data element is missing, do not include the asterisk * but the backslash is still mandatory at the end. In the example if missing the Postal or Zip Code, the format would be:

Country\ US\

Reminder – no leading spaces, left justify.

Identification of Additional Parties to an IAT Cross Border Payment

International Payments can involve more parties then the two traditionally identified as Originator and Receiver; these are commonly known as "split-transactions' payments or "for further credit to" payments, where a third-party service provider originates and settles two separate transactions to complete the underlying payment transactions on behalf of the parties.

You are obligated to identify within an IAT Entry:

- 1. ACH Direct Payment Services (PAP-PAD)
 - a. the ultimate foreign beneficiary of the funds transfer when the proceeds from a debit IAT Entry from an account in the USA are for further credit to an ultimate foreign beneficiary that is a party other than the Originator of the debit IAT Entry, or
- 2. ACH Direct Deposits Service (PDS)
 - a. the foreign party ultimately funding a credit Southbound IAT Entry when that party is not the Originator of the credit IAT Entry.

The ultimate Payer (if not the Originator of the ACH Credit payment) must be identified in the Payment Related Information Field of the IAT Remittance Addenda Record.

Formatting of Additional Parties:

Must include the ultimate foreign payer's name, street address, city, state/province, postal/zip code, and 2 digit ISO Country Code.

Example: Johann Schmidt*Mainzer Landstrasse 201*60326 Frankfurt am Main*DE\
ABC Company Ltd*123 Londonderry Road*Dublin*IE\

DESCRIPTION OF RECORD FORMATS

Header Record

This header record is used to delimit the beginning of each input file and must be the first record on each file.

Record is used for all variations of the ACH format. Should be the first record for:

- Payments destined to the United States & Canada using the IAT format.
- Payments destined to Canada using the CCD/PPD format.

Field #	Character Position	Field Size	Format	RBC Field Name	Data Requirements
01	01-01	1	N	Record Type	1
02	02-03	2	N	Priority Code	01
03	04-13	10	AN	Filler	Blank fill
04	14-23	10	AN	Client Number	10 digit client number as follows: 6 digit client number assigned by RBC Global Services and 4 digit subsidiary number assigned by the client. (Where no subsidiary exists insert zeros as the last 4 digits).
05	24-29	6	N	File Creation Date	Enter date file was created Format YYMMDD
06	30-33	4	AN	File Creation Number	4 digit numeric to identify this file, must be different from previous 9 numbers submitted for processing. When submitting a test file, the FCN must be TEST
07	34-34	1	AN	File ID Modifier	Only Upper-case A-Z and 0-9
08	35-37	3	N	Record Size	094
09	38-39	2	N	Blocking Factor	10
10	40-40	1	N	Format Code	1
11	41-63	23	AN	Destination Bank	RBC Royal Bank or leave blank
12	64-86	23	AN	Company Name	Client Long Name
13	87-94	8	AN	Filler	Blank fill

IAT Formatted Records

Format used for ALL payments destined to the USA Cross Border Payments

IAT Company/Batch Header Record

For Payments destined to US Banks and Canadian Banks

This record identifies the client and destination of the payments included in the batch. The information contained in the company/batch record applies uniformly to all subsequent entry detail records in the batch. Only one destination country is permitted per batch.

This record can also be used to send payments to Canadian Banks.

Field #	Character Position	Field Size	Format	RBC Field Name	Data Requirements
01	01-01	1	N	Record Type	5
02	02-04	3	N	Service Identifier	220 Credit transactions
03	05-20	16	AN	Filler	Leave Blank For forward IAT entries, this field should be left blank.
04	21-22	2	AN	Foreign Exchange Ind	FV fixed to variable VF variable to fixed FF fixed to fixed or leave blank
05	23-23	1	N	Foreign Exchange Reference Ind	Code used to indicate the content of the Foreign Exchange Reference Field. Code values for this field are: 1 - Foreign Exchange Rate; 2 - Foreign Exchange Reference Number; or 3 - Space Filled.
06	24-38	15	AN	Foreign Ex Reference	Rate, reference number or leave blank Contains either the foreign exchange rate used to execute the foreign exchange conversion of an IAT entry or another reference to the foreign exchange transaction. Content is defined by the Foreign Exchange Reference Indicator Field.
07	39-40	2	AN	Destination Country	Mandatory Destination Country of Payment: US United States CA Canada
08	41-50	10	AN	Client Number	10-digit client number as follows: 6-digit client number assigned by RBC and 4-digit subsidiary number assigned by the client. (Where no subsidiary exists insert zeros as the last 4 digits).
09	51-53	3	AN	Standard Entry Class Code	IAT

Field#	Character Position	Field Size	Format	RBC Field Name	Data Requirements
10	54- 63	10	AN	Company Entry Description	Mandatory for USA destined payments – provide a description of the purpose of the entry which will be displayed to the Receiver. Examples: GAS BILL REG SALARY INS PREM PURCHASE DO NOT use for INVOICE or Reference Numbers. Optional - For Canadian Banks – information will be added to the Electronic Message field.
11	64-66	3	AN	Origination Currency Code	USD or CAD If left blank will default to currency of Service
12	67-69	3	AN	Destination Currency Code	Note: destination currency cannot be CAD for payments destined to the United States.
13	70-75	6	N	Due Date	Payment date, format YYMMDD. For Payments Destined to USA: today or greater maximum of 173 days. For Payments Destined to CAD: credits can be 30 days in the past or 173 days in the future.
14	76-78	3	N	Filler	Blanks or information entered will be ignored
15	79-79	1	AN	Filler	Enter 1 or leave blank
16	80-87	8	N	Filler	Blanks or information entered will be ignored.
17	88-94	7	N	Batch Number	Must be sequential within file

IAT Entry Detail Record

For Payments Destined to United States and Canada

The **mandatory** entry detail record contains the basic information to post the transaction to the customer's account held at a Financial Institution in the United States of America.

This record can also be used to send payments to Canadian Banks.

Field #	Character Position	Field Size	Format	RBC Field Name	Data Requirements
01	01-01	1	N	Record Type	6
02	02-03	2	N	Transaction Code	22 Demand credit 23 Demand pre-note 32 Savings credit 33 Savings pre-note
					Enter the appropriate transaction code. This is a mandatory field for all USA destined payments.
03	04-12	9	N	USA Bank Routing Number	For USA Banks: ABA number of Customer's Bank
				CAN Bank & Transit Number	For Canadian banks: Enter 4 digit bank number followed by the 5 digit transit.
04	13-16	4	N	Number of Addenda Records	Mandatory – This represents the number of addenda records associated with the Entry Detail Record.
05	17-29	13	AN	Blank	Blank - spaces
06	30.39	10	AN	Amount	Format \$\$\$\$\$\$\$¢¢ Amount to be in the currency of the service.
07	40-74	35	AN	Account Number	Customer Account number, field must be left justified, do not zero fill. Enter significant digits only.
08	75-76	2	AN	Filler	Leave Blank
09	77-77	1	AN	Filler	Leave Blank
10	78-78	1	AN	Filler	Leave Blank
11	79-79	1	N	Addenda Record Indicator	Mandatory - one or more addenda record follows entry. Must = 1
12	80-94	15	N	US Trace Number	If filled, trace number will be stored on the RBC system in the Electronic Message field. This information will be part of any returns data file. This information is also passed in payments details destined to FI's in Canada.

1st IAT Addenda Record - Customer/Receiver Information

This **mandatory** record for all payments destined to the U.S.A. and to Canada. This record contains information pertaining to the recipient of the payment. This record must follow the IAT Entry Detail Record.

Field #	Character Position	Field Size	Format	RBC Field Name	Data Requirements
01	01-01	1	N	Record Type	7
02	02-03	2	N	Addendum Type Code	10
03	04-06	3	AN	Transaction Type Code	Mandatory for payments destined to the USA-This field contains a three-character code used to identify the type of transaction. Select one of the following values: ANN" (Annuity), BUS"(Business/Commercial)DEP (Deposit), LOA (Loan), MIS (Miscellaneous), MOR (Mortgage), PEN (Pension), RLS (Rent/Lease), SAL (Salary/Payroll), TAX (Tax) For Payments destined to Canada, enter the 3 digit CPA Transaction Code. If left blank, CPA code from Service Profile will default. Refer to Appendix 2
04	07-24	18	N	Foreign Payment Amount	Zero Fill or enter the Canadian \$\$ amount if converted \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$¢¢
05	25-46	22	AN	Filler	Leave Blank
06	47-81	35	AN	Customer/ Receiver Name	Enter the Legal name of the Customer or Company. No special characters Refer to section Originator & Receiver Name Format .
07	82-87	6	AN	Filler	Leave Blank
08	88-94	7	N	Entry Detail Sequence Number	This number is the same as the last seven digits of the trace number of the related Entry Detail Record or leave blank.

2nd IAT Addenda Record – Originator Information

This **mandatory** record is for all payments destined to the U.S.A. It contains addressing information and must follow the 1st IAT Addenda Record.

For payments destined to Canadian Banks, this record is optional. RBC will not edit or forward information to the Canadian Banks.

Field #	Character Position	Field Size	Format	RBC Field Name	Data Requirements
01	01-01	1	N	Record Type	7
02	02-03	2	N	Addendum Type Code	11
03	04-38	35	AN	Client Long Name	Mandatory Enter the Legal name of the originator of the payment. Do not abbreviate or use an acronyms.
04	39-73	35	AN	Client Street Address	Mandatory Enter the full physical address of the originator of the payment. Do not use PO Box numbers. This must be the street address. Refer to section Originator & Receiver Address Format.
05	74-87	14	AN	Filler	Leave Blank
06	88-94	7	N	Entry Detail Sequence Number	This number is the same as the last seven digits of the trace number of the related Entry Detail Record or leave blank.

3rd IAT Addenda Record – Originator Address Information

This **mandatory** record is for all payments destined to the U.S.A. It contains addressing information of the originating bank and must follow the 2nd IAT Addenda Record.

For payments destined to Canadian Banks, this record is optional. RBC will not edit or forward information to the Canadian Banks.

Field #	Character Position	Field Size	Format	RBC Field Name	Data Requirements
01	01-01	1	N	Record Type	7
02	02-03	2	N	Addendum Type Code	12
03	04-38	35	AN	Originator City & Province/State	Mandatory This field must contain the city and state or province of the Originator. An asterisk ("*") MUST be the delimiter between the data elements, and the backslash ("\") MUST be the terminator following the last data element. Example: Montreal*QC\ Refer to section Originator & Receiver Address
04	39-73	35	AN	Originator Country & Postal Code/Zip Code	Mandatory Country code This field contains the ISO 2 digit country and postal/zip code of the Originator. An asterisk ("*") MUST be the delimiter between the data elements, and the backslash ("\") MUST be the terminator following the last data element. Do not use periods. Example: CA* A1B2C3\ Refer to section Originator & Receiver Address Format.
05	74-87	14	AN	Filler	Leave Blank
06	88-94	7	N	Entry Detail Sequence Number	This number is the same as the last seven digits of the trace number of the related Entry Detail Record or leave blank.

4th IAT Addenda Record – Originator Bank Information

This record is for all payments destined to the U.S.A. It contains information pertaining to the Originating Bank and must follow the 3rd IAT Addenda Record.

FOR BUSINESS CLIENTS - OPTIONAL - RBC will create this record if not included in input file.

FOR **Indirect Clearers FI CLIENTS** – **MANDATORY** – if you are the Originating Bank, enter your own banking information. If you are processing on behalf of another Financial Institution, enter that FI's information.

For payments destined to Canadian Banks, this record is optional. RBC will not edit or forward information to the Canadian Banks.

Field #	Character Position	Field Size	Format	RBC Field Name	Data Requirements
01	01-01	1	N	Record Type	7
02	02-03	2	N	Addendum Type Code	13
03	04-38	35	AN	Originator Bank Name	Enter the name of the bank originating the payments. For Business Clients must always be Royal Bank of Canada, Toronto For Banks/Financial Institutions originating payments on behalf of their clients: Enter the originating banks information
04	39-40	2	AN	Originating DFI ID Number Qualifier	This field contains a 2-digit code that identifies the numbering scheme used in the Originating DFI Identification Number Field. Code values for this field are: Enter: 1
05	41-74	34	AN	Originating Bank Identification (Bank/Routing Number)	For Business Clients Enter - 0003 For Bank/Fl clients, enter the appropriate bank number based on the DFI ID # Qualifier.
06	75-77	3	AN	Originating DFI Branch Country Code	This field contains a 2-digit code as approved by the International Organization for Standardization (ISO) used to identify the country in which the branch of the bank that originated the entry is located. Left Justify with SPACE in the last digit.
07	78-87	10	AN	Filler	Leave Blank
08	88-94	7	N	Entry Detail Sequence Number	This number is the same as the last seven digits of the trace number of the related Entry Detail Record or leave blank.

5th **IAT Addenda Record** – Receiving Bank Information

This **optional** record is for all payments destined to the USA and Canada. It contains addressing information pertaining to the destination bank and must follow the 4th IAT Addenda Record.

If this record is not included in the file, RBC will create this addenda record on behalf of all clients.

RBC will not edit or forward information to the Canadian Banks.

Field #	Character Position	Field Size	Format	RBC Field Name	Data Requirements
01	01-01	1	N	Record Type	7
02	02-03	2	N	Addendum Type Code	14
03	04-38	35	AN	Customer Bank Name	Enter the name of the bank that the payment is destined to. Can leave blank if payment destined to Canadian bank.
04	39-40	2	AN	Receiving DFI ID Number Qualifier	This field contains a 2-digit code that identifies the numbering scheme used in the Receiving DFI Identification Number Field. Code values for this field are: 1 National Clearing System Number; 2 BIC Code; or 3 IBAN
05	41-74	34	AN	Receiving DFI Identification (Routing Number)	Enter the DFI Routing number (ABA Number) for the destination bank. For Canadian banks, indicate the Bank and transit number or leave blank.
06	75-77	3	AN	Receiving DFI Branch Country Code	Enter the country of the Bank US Or CA (only for payments destined to Canada)
07	78-87	10	AN	Filler	Leave Blank
08	88-94	7	N	Entry Detail Sequence Number	This number is the same as the last seven digits of the trace number of the related Entry Detail Record or leave blank.

6th IAT Addenda Record - Customer/Receiver Address Information

This **mandatory** record is for all payments destined to the U.S.A and Canada. It contains addressing information pertaining to the customer and must follow the 5th IAT Addenda Record (if created) or previous mandatory record.

Field #	Character Position	Field Size	Forma t	RBC Field Name	Data Requirements
01	01-01	1	N	Record Type	7
02	02-03	2	N	Addendum Type Code	15
03	04-18	15	AN	Customer/ Receiver Number	Client Assigned, Left Justify Mandatory information for both US & CA Destined payments
04	19-53	35	AN	Customer/ Receiver Street Address	Enter the complete physical street address of the receiver/customer. Do not use PO Box #'s. Refer to section Originator & Receiver Address Format.
05	54-87	34	AN	Filler	Leave Blank
06	88-94	7	N	Entry Detail Sequence Number	This number is the same as the last seven digits of the trace number of the related Entry Detail Record or leave blank.

7th IAT Addenda Record - Customer/Receiver Address Information

This **mandatory** record is for all payments destined to the U.S.A. It contains addressing information of the receiver/customer and must follow the 6th IAT Addenda Record.

For payments destined to Canadian Banks, this record is optional. RBC will ignore it's contents

Field #	Character Position	Field Size	Format	RBC Field Name	Data Requirements
01	01-01	1	N	Record Type	7
02	02-03	2	N	Addendum Type Code	16
03	04-38	35	AN	Customer/ Receiver City & Province/ State	This field contains the city and, if applicable, the state or province of the Receiver. An asterisk ("*") MUST be the delimiter between the data elements, and the backslash ("\") MUST be the terminator following the last data element. Example: New York*New York\ Refer to section Originator & Receiver Address Format.
04	39-73	35	AN	Customer/ Receiver Country & Postal Code/Zip Code	Mandatory Country code This field contains the ISO 2 digit country code and postal/zip code of the Receiver. An asterisk ("*") MUST be the delimiter between the data elements, and the backslash ("\") MUST be the terminator following the last data element. Do not use periods Examples: US*123456789\ Refer to section Originator & Receiver Address Format.
05	74-87	14	AN	Filler	Leave Blank
06	88-94	7	N	Entry Detail Sequence Number	This number is the same as the last seven digits of the trace number of the related Entry Detail Record or leave blank.

IAT Addenda Record for Remittance Information

This **optional** record will be accepted for payments destined to the U.S.A. A maximum of two optional remittance addenda records may be included with each IAT Entry.

NOTE: The total number of Optional Remittance Records and Foreign Correspondent Bank Records cannot exceed five.

The ultimate payer (if not the Originator of the ACH PAD payment) must be identified in the Payment Related Information Field of the IAT Remittance Addenda Record when the payment is part of a "split transaction".

For Canadian destined payments, this information will be ignored.

Field	Character	Field	Format	RBC Field	Data Requirements
#	Position	Size		Name	
01	01-01	1	N	Record Type	7
02	02-03	2	N	Addendum Type Code	17
03	04-83	80	AN	Payment Related Information	Max 80 characters of remittance information. Formatting of Remittance information is normally provided by the receiving customer/vendor. If format information contains the Country - only use the ISO 2 Digit Country Code. Separate fields with asterisks * and end with a backslash \
					Johann Schmidt*Mainzer Landstrasse 201*60326 Frankfurt am Main*DE\
04	84-87	4	N	Addenda Sequence	The first addenda sequence number must always be a "1".
05	88-94	7	N	Entry Detail Sequence Number	This number is the same as the last seven digits of the trace number of the related Entry Detail Record or leave blank.

IAT Addenda Record for Foreign Correspondent Bank Information

Each Foreign Correspondent Bank involved in the processing of an IAT entry must be identified within an Addenda Record for IAT Correspondent Bank Information. A Foreign Correspondent Bank is defined as any bank outside of the United States. There can be a maximum of 3 to 5 Correspondent Addenda Records.

For Business clients – this record is optional.

For **Banks/FI clients – MANDATORY** – if you are processing on behalf of another financial institution, you are required to create one Correspondent Record that represents your bank information. You can enter up to 4 Correspondent banks. RBC reserves one Correspondent bank Addenda record.

RBC will create one record if not included with your file.

1. Royal Bank of Canada Toronto, Bank # 0003

NOTE: The total number of Optional Remittance Records and Foreign Correspondent Bank Records cannot exceed five.

For payments destined to Canadian Banks, this record is optional. RBC will not edit or forward information contained in this record to the Canadian Banks

Field #	Character Position	Field Size	Format	RBC Field Name	Data Requirements
01	01-01	1	N	Record Type	7
02	02-03	2	N	Addendum Type Code	18
03	04-38	35	AN	Correspondent Bank Name	Enter the name of the Correspondent Bank
04	39-40	2	AN	Correspondent Bank ID Number Qualifier	This field contains a 2-digit code that identifies the numbering scheme used in the Receiving DFI Identification Number Field. Code values for this field are: 1 National Clearing System Number; 2 BIC Code; or 3 IBAN
05	41-74	34	AN	Correspondent Bank Identification	Enter the applicable bank number associated with the Bank ID Number Qualifier for the Correspondent Bank.
06	75-77	3	AN	Correspondent Bank Branch Country Code	This field contains a 2-digit code as approved by the International Organization for Standardization (ISO) used to identify the country in which the branch of the Correspondent Bank is located. Left Justify – Space fill the last digit.
07	78-83	6	AN	Filler	Leave Blank
08	84-87	4	N	Addenda Sequence	The first addenda sequence number must always be a "1" and each subsequent record will increment to a maximum of 5
09	88-94	7	N	Entry Detail Sequence Number	This number is the same as the last seven digits of the trace number of the related Entry Detail Record or leave blank.

Non Cross Border Payment Formatted Records

Payments Destined to Canadian Banks

USING CCD/PPD STANDARD ENTRY CLASS CODES

CCD/PPD - Company/Batch Header Record - Except IAT

For Payments destined to Canadian Banks

This mandatory record identifies the client and describes the service utilized. The information contained in the company/batch record applies uniformly to all subsequent entry detail records in the batch. Only one service identifier is permitted per batch.

Field	Character	Field		RBC Field	
#	Position	Size	Format	Name	Data Requirements
01	01-01	1	N	Record Type	5
02	02-04	3	N	Service Identifier	
					220 Credit transactions
03	05-20	16	AN	Client Short	For customer statements. This will appear on most bank
				Name	statements. If left blank, client short name from client profile will default.
					Do not enter ZEROS in this field.
04	21-21	1	AN	Filler	Leave blank
05	22-23	2	AN	Foreign	FV fixed to variable
				Exchange Ind	VF variable to fixed
					FF fixed t fixed
06	24-26	3	AN	Origination Curr	or leave blank USD or CAD or leave blank
07	27-28	2	AN	Origination	CA or leave blank
"	2. 20	_	/ •	Country	or or loave starik
08	29-31	3	AN	Destination Curr	CAD or USD or
					Leave Blank.
					If blank or not CAD/USD = Defaults to the currency of the
					service.
09	32-40	9	AN	Foreign	Max 9 digits including decimal point or leave blank
				Exchange Rate	
10	41-50	10	AN	Client Number	10-digit client number as follows: 6-digit client number
					assigned by RBC and 4-digit subsidiary number assigned by the client. (Where no subsidiary exists insert zeros as
					the last 4 digits).
11	51-53	3	AN	Standard Entry	PPD Personal Payments
				Class Code	CCD Corporate Payments
12	54-63	10	AN	Company Entry	For Canadian Banks – information will be in the Electronic
				Description	Message field.
					For USA Payments - Mandatory – provide a description
					of the purpose of the entry which will be displayed to the
					Receiver. Examples:
					GAS BILL
					REG.SALARY
					INS.PREM PURCHSE
					1 ONOTIOE
					Do not use Invoice or Reference Numbers.
					If left blank, default will be
					ACH CR
13	64-69	6	AN	Filler	Blanks or information will be ignored

Field #	Character Position	Field Size	Format	RBC Field Name	Data Requirements
14	70-75	6	N	Due Date	Payment date, format YYMMDD. For Payments Destined to CAD: For Credits: can be 30 days in the past or 173 days in the future.
15	76-78	3	N	Filler	Blanks or information entered will be ignored
16	79-79	1	AN	Originator Status Code	1
17	87-80	8	N	Financial Institution	Blanks or information entered will be ignored.
18	88-94	7	N	Batch Number	Must be sequential within file

CCD/PPD - Entry Detail Record - Except IAT

For Payments Destined To Canadian Banks - does not apply to Cross Border payments.

The entry detail record contains the basic information to post the transaction to the customer's account.

Field #	Character Position	Field Size	Format	RBC Field Name	Data Requirements
01	01-01	1	N	Record Type	6
02	02-03	2	N	Transaction Code	22 Demand credit 23 Demand pre-note 32 Savings credit
					33 Savings pre-note Enter the appropriate transaction code. This is a mandatory field for all USA destined payments. For payments destined to Canada, the CPA transaction code from your profile will default on all CA destined payments.
		<u> </u>	Canadian	Domestic Bankir	all CA destined payments.
03	04-07	4	N	CAN Bank	iy iiiio
03	04-07	7	1 N	Number	0999 – financial institution number
04	08-12	5	AN	CAN Branch Transit Number	99999 – financial branch number institution This field can only accept numerical information.
		•	USA Do	mestic Banking	Info
03/04	04-12	9	AN	USA Bank ABA Routing Number	Enter the ABA routing number.
		T . =			
05	13-29	17	AN	Account Number	Customer Account number, field must be left justified, do not zero fill. Enter significant digits only.
06	30-39	10	N	Amount	Format \$\$\$\$\$\$\$¢¢
07	40-54	15	AN	Customer	
				Number	Client Assigned, Left Justify
08	55-76	22	AN	Customer	
00	77.70		A N I	Name	Mandatory
09	77-78	2	AN	Destination Country	Mandatory Destination Country of Payment: CA Canada US United States
10	79-79	1	N	Addenda Record Indicator	Will be ignored for payment destined to Canadian bank
11	80-94	15	N	USD Trace Number	If filled, trace number will be stored on the GRADS system in the Electronic Message field. This information will be part of any returns data file. This information is passed to FI's in Canada.

Common Records - CCD/PPD/IAT

Company/Batch Control Record

Please note: RBC does NOT use or edit the Company/Batch Control Record. The company/batch control record contains the counts, hash totals, and the total dollar controls for the preceding detail entries within the indicated batch.

This record if used for all variations of the ACH format. Should follow the last entry detail record of a batch:

- Payments destined to the United States & Canada using the IAT format.
- Payments destined to Canada using the CCD/PPD format.

Field #	Character Position	Field Size	Format	RBC Field Name	Data Requirements
01	01-01	1	N	Record Type	8
02	02-04	3	N	Service Identifier	220 Credit transactions only
03	05-10	6	N	Entry/Addend a Count	Total number of addenda records in file
04	11-20	10	N	Entry Hash	Not applicable
05	21-32	12	N	Total Debit Entry Dollar Amount	Zero fill
06	33-44	12	N	Total Credit Entry Dollar Amount	Total dollar amount for all detail credit records. Format \$\$\$\$\$\$\$\$\$¢¢
07	45-54	10	AN	Client Number	10-digit client number as follows: 6-digit client number assigned by RBC and 4-digit subsidiary number assigned by the client. (Where no subsidiary exists insert zeros as the last 4 digits).
08	55-73	19	AN	Message Authentication Code	Blank
09	74-79	6	AN	Reserved	Blank
10	80-87	8	N	Message Authentication Code	Blank
11	88-94	7	N	Batch Number	Each Batch number must be ascending and incremented by 1

File Control Record - Trailer Record

The file record contains dollar, entry, and hash total accumulations from the company/batch control records in the file. This record also contains counts of the number of blocks and the number batches within the file (batched data transmitted to a single destination).

This record is used for all variations of the ACH format. Should be the last record of the file:

- Payments destined to the United States & Canada using the IAT format.
- Payments destined to Canada using the CCD/PPD format.

Field #	Character Position	Field Size	Format	RBC Field Name	Data Requirements
01	01-01	1	N	Record Type	9
02	02-07	6	N	Block Count	Total number of batch header records, (type 5) in the file
03	08-13	6	N	Block Count	Total number of all physical blocks in the file.
04	14-21	8	N	Entry Addenda Count	Total number of detail records (type 6) PLUS addenda records (Type 7) in the file.
05	22-31	10	N	Filler	Zero fill
06	32-43	12	N	Total Debit Dollar Amount	Zero fill
07	44-55	12	N	Total Credit Dollar Amount	Total number of detail credit records. Format \$\$\$\$\$\$\$\$\$¢¢
80	56-94	39	AN	Filler	Blank

Appendix 1 – USA Transaction Codes

For all payments destined to accounts held at banks in the United States, one of the following codes must be used.

Tran Code	Transaction Code Description	Tran Code	Transaction Code Description
Demar	nd Accounts Credit Records	Savings	s Accounts Credit Records
22	Automated Deposit	32	Automated Deposit
23	Pre-notification of Demand Credit (zero-dollar)	33	Pre-notification of Savings Credit (zero-dollar)
Demar	nd Accounts Debit Records	Savings	s Accounts Debit Records
27	Automated Payment	37	Automated Payment
28	Pre-notification of Demand Debit (zero-dollar)	38	Pre-notification of Savings Debit (zero-dollar)

Appendix 2 – Canadian CPA Transaction Codes

For the most recent listing of transactions codes refer to the ACH Direct Payments & Deposits Resource Centre. Quick Reference - Payment Transaction Codes

English: https://www.rbcroyalbank.com/ach/
https://www.rbcroyalbank.com/ach-fr/

Appendix 3 – File Transmission Routing Records

Files which are submitted using file transmission services such as Web File Transfer or FTP SSL, will require a routing record which will be the first record in the file. For Dedicated or Private Connectivity solutions such as Connect:Direct, or SWIFTNet File Act, please contact RBC's Client Connectivity Team directly for assistance. The standard convention of this File Qualifier is as follows:

These header records will accommodate French Characters within the file.

- Test Input with full record length of 94 bytes \$\$AA01ACH0094[TEST[NL\$\$
- Production Input of full record length of 94 bytes \$\$AA01ACH0094[PROD[NL\$\$

Existing Clients may also use the following header records.

These header records will not accommodate French Characters within the file. French Characters may be changed to blanks or other letters.

- Test Input with full record length of 94 bytes \$\$AAPDACH0094[TEST[NL\$\$
- Production Input of full record length of 94 bytes \$\$AAPDACH0094[PROD[NL\$\$
- Test Input with record broken down into 80 byte segments \$\$AAPDACH0094[TEST[80\$\$
- Production Input with record broken down into 80 byte segments \$\$AAPDACH0094[PROD[80\$\$

END