

International ACH (IAT) NACHA File Formats

INTERNATIONAL ACH (IAT) FILE FORMATS

IAT File Header Record - Original Entry

The File Header Record introduces the file. It designates the physical file characteristics and identifies the sender of the file (the ODFI or Gateway Operator) and the party to which the file is being delivered (the ACH Operator). This record also includes the date, time, and file identification fields that can be used to identify a particular file.

				Mandatory/Required/	
#	Field	Position	Length	Optional	Description
1	Record Type Code	01-01	1	Mandatory	Record Type: 1
2	Priority Code	02-03	2	Required	Priority Code: 01 (Numeric)
3	Immediate Destination	04-13	10	Mandatory	Transit/Routing number of Bank, preceded by a single space _101000019
4	Immediate Origin	14-23	10	Mandatory	Company Fed Tax ID, preceded by a single space _nnnnnnnnn
5	File Creation Date	24-29	6	Mandatory	File Creation Date: YYMMDD
6	File Creation Time	30-33	4	Optional	File Creation Time: HHMM
7	File ID Modifier	34-34	1	Mandatory	File ID Modifier – " A " for the first file of the day, " B " for the second file of the day, etc. May use: Upper Case A-Z, Numeric 0-9
8	Record Size	35-37	3	Mandatory	Record size: 094
9	Blocking Factor	38-39	2	Mandatory	Blocking Factor: 10
10	Format Code	40-40	1	Mandatory	Format Code: 1
11	Immediate Destination Name	41-63	23	Optional	Immediate Destination Name (Alphameric): Commerce Bank
12	Immediate Origin Name	64-86	23	Optional	Company Name or Name of Service Agency who created the file (Alphameric)
13	Reference Code	87-94	8	Optional	Reference Code is reserved for bank use (Alphameric)

IAT Company/Batch Header Record - Original Entry

The Company/Batch Header Record identifies the Originator and briefly describes the purpose of the entry.

				Mandatory/Required/	
#	Field	Position	Length	Optional	Description
1	Record Type Code	01-01	1	Mandatory	Record Type: 5
2	Service Class Code	02-04	3	Mandatory	Service Class Code (Numeric):
					200 Debits & Credits
					220 Credits Only
					225 Debits Only
3	IAT Indicator	05-20	16	Optional	(Alphameric)
4	Foreign Exchange Indicator	21-22	2	Mandatory	Indicates the foreign exchange conversion methodology
	indicator				applied to an IAT entry (Alphameric)
					FV Fixed to variable
					VF Variable to fixed
					FF Fixed to Fixed
5	Foreign Exchange Reference Indicator	23	1	Required	Indicates the type of data in the foreign exchange
	Neierence indicator				reference field (Numeric):
					1 Foreign exchange rate;
					2 Foreign exchange reference number; or
					3 Space filled
6	Foreign Exchange Reference	24-38	15	Required	Foreign exchange rate or reference number, as specified
	Releience				in the foreign exchange reference indicator field. If the
					foreign exchange reference indicator is 3, leave this field
					blank (Alphameric)
7	ISO Destination Country Code	39-40	2	Mandatory	Two-character ISO 3166 country code for the beneficiary
					country (Alphameric)
8	Originator Identification	41-50	10	Mandatory	Enter your Commerce Bank ACH Company ID
					(Alphameric)
9	Standard Entry Class Code (SEC)	51-53	3	Mandatory	Always IAT. Must be uppercase (Alphameric)
10	Company Entry	54-63	10	Mandatory	Enter a description of the entry, such as PAYROLL or
	Description				VENDOR PMT (Alphameric)
11	ISO Originating Currency	64.66	2	Mandatan	Three-character ISO 4217 code of the originating
11	Code	64-66	3	Mandatory	currency. When the foreign exchange indicator field is
					FV, ISO originating currency is USD (Alphameric)
12	ISO Destination Currency	67-69	3	Mandatory	Three-character ISO 4217 code for the destination
	Code				currency. When the foreign exchange indicator field is VF
					or FF, ISO originating currency and ISO destination
					currency must be the same. When the foreign exchange
					indicator field is FV , ISO destination currency indicates the
					foreign currency (Alphameric)
13	Effective Entry Date	70-75	6	Required	Date item(s) are to post to the receivers account
					Format: YYMMDD
14	Settlement Date (Julian Date)	76-78	3	Inserted by ACH Operator	Julian Date – Commerce Bank will insert (Numeric)
15	Originator Status Code	79	1	Mandatory	Originator Status Code: 1 (Alphameric)
16	Gateway Operator	80-87	8	Mandatory	Originating DFI ID – Commerce Bank will insert
	Identification/Originating DFI Identification				(10100001)
17	Batch number	88-94	7	Mandatory	Sequential batch number within file (Numeric)

IAT Entry Detail Record - Original Entry

The Entry Detail Records contain information about the Receiver and the Receiver's financial institution.

				Mandatory/Required/	
#	Field	Position	Length	Optional	Description
1	Record Type Code	01-01	1	Mandatory	Record Type: 6
2	Transaction Code	02-03	2	Mandatory	Transaction Code (Numeric):
					22 Demand Deposit Account Credit
					23 Demand Deposit Account Credit Pre-note
					27 Demand Deposit Account Debit
					28 Demand Deposit Account Debit Pre-note
					32 Savings Account Credit
					33 Savings Account Credit Pre-note
					37 Savings Account Debit
					38 Savings Account Debit Pre-note
3	Gateway Operator Identification /	04-11	8	Mandatory	Contains the standard Routing Number that identifies
	Receiving DFI Identification				the U.S. RDFI at which the receiver maintains their
					account
4	Check Digit	12-12	1	Mandatory	(Numeric)
5	Number of Addenda Records	13-16	4	Mandatory	Represents the number of addenda records
					associated with the Entry Detail Record (Numeric)
6	Reserved	17-29	13	N/A	Leave Blank
7	Amount	30-39	10	Mandatory	Contains the dollar amount of the entry in U.S. dollars
8	Foreign Receiver's Account Number / DFI Account Number	40-74	35	Mandatory	Contains the receiver's account number (Alphameric)
9	Reserved	75-76	2	N/A	Leave Blank
10	Gateway Operator (GO) OFAC	77-77	1	Optional	Indicates the results of a Gateway Operator screen for
	Screening Indicator				OFAC compliance (Alphameric)
					0 = GO has not found a potential block party
					1 = GO found presence of a potential blocked party
11	Secondary OFAC Screening Indicator	78-78	1	Optional	(Alphameric)
12	Addenda Record Indicator	79-79	1	Mandatory	(Numeric)
13	Trace Number	80-94	15	Mandatory	Assigned by the ODFI in ascending sequence and
					uniquely identifies each entry within a batch (Numeric)

First IAT Addenda Record - Original Entry

The First IAT Addenda Record identifies the Receiver of the transaction and the dollar amount of the payment.

				Mandatory/Required/	
#	Field	Position	Length	Optional	Description
1	Record Type Code	01-01	1	Mandatory	Record Type: 7
2	Addenda Type Code	02-03	2	Mandatory	Addenda Type Code: 10
3	Transaction Type	04-06	3	Required	Field contains a three-character code used to identify the type of
	Code				transaction (Alphameric)
					Options for Outbound Payments:
					ANN – Annuity
					BUS – Business/Commercial
					DEP – Deposit
					LOA – Loan
					MIS – Miscellaneous
					MOR – Mortgage
					PEN – Pension
					RLS – Rent/Lease
					SAL – Salary
					TAX – Tax
					For Inbound Payments, in addition to the options above, a secondary
					SEC Code may be used: ARC, BOC, MTE, POP, POS, RCK, TEL,
					WEB
4	Foreign Payment	07-24	18	Required	For Outbound IAT Entries, this field contains the amount for which the
	Amount				entry is to be received by the Foreign Receiver in the currency
					denomination expressed in the ISO Destination Currency Code Field
					of the Company/Batch Header Record
5	Foreign Trace Number	25-46	22	Optional	Insert blanks or zeros (Alphameric)
6	Receiving Company Name or Individual	47-81	35	Mandatory	This field contains the name of the Receiver (Alphameric)
7	Name Reserved	82-87	6	N/A	Leave Blank
8	Entry Detail	88-94	7	Mandatory	This field contains the ascending sequence number section of the
	Sequence Number	55 54		andicory	Entry Detail Record's trace number. This number is the same as the
					last seven digits of the trace number of the related Entry Detail
					Record (Numeric)
					Tecola (Mameno)

Second and Third IAT Addenda Records - Original Entry

The Second and Third IAT Addenda Records identify key information related to the Originator of the entry.

Second IAT Addenda Record

				Mandatory/Required/	
#	Field	Position	Length	Optional	Description
1	Record Type Code	01-01	1	Mandatory	Record Type: 7
2	Addenda Type Code	02-03	2	Mandatory	Addenda Type Code: 11
3	Originator Name	04-38	35	Mandatory	Field contains the name of the Originator of the transaction
					(Alphameric)
4	Originator Street Address	39-73	35	Mandatory	Field contains the Originator's physical street address (Alphameric)
5	Reserved	74-87	14	N/A	Leave Blank
6	Entry Detail	88-94	7	Mandatory	This field contains the ascending sequence number section of the
	Sequence Number				Entry Detail Record's trace number. This number is the same as the
					last seven digits of the trace number of the related Entry Detail
					Record (Numeric)

Third IAT Addenda Record

				Mandatory/Required/	
#	Field	Position	Length	Optional	Description
1	Record Type Code	01-01	1	Mandatory	Record Type: 7
2	Addenda Type Code	02-03	2	Mandatory	Addenda Type Code: 12
3	Originator City & State/Province	04-38	35	Mandatory	This field contains the city and, if applicable, the state or province of the Originator. Asterisks must be used to separate the data elements, and the last data element must be followed by a backslash (Alphameric)
4	Originator Country & Postal Code	39-73	35	Mandatory	This field identifies the Originator's country and postal code, (e.g., 'US*64105\'). Data elements must be separated by an asterisk and must end with a backslash (Alphameric)
5	Reserved	74-87	14	N/A	Leave Blank
6	Entry Detail Sequence Number	88-94	7	Mandatory	This field contains the ascending sequence number section of the Entry Detail Record's trace number. This number is the same as the last seven digits of the trace number of the related Entry Detail Record (Numeric)

Fourth IAT Addenda Record - Original Entry

The Fourth IAT Addenda Record contains information related to the financial institution originating the entry.

				Mandatory/Required/	
#	Field	Position	Length	Optional	Description
1	Record Type Code	01-01	1	Mandatory	Record Type: 7
2	Addenda Type Code	02-03	2	Mandatory	Addenda Type Code: 13
3	Originating DFI	04-38	35	Mandatory	For an Inbound IAT entry, this field contains the name of the foreign
	Name				Originating DFI (Alphameric)
4	Originating DFI	39-40	2	Mandatory	This field contains a 2-digit code that identifies the numbering scheme
	Identification Number Qualifier				used in the Originating DFI Identification Number Field (Alphameric)
5	Originating DFI	41-74	34	Mandatory	For Inbound IAT Entries, this field contains the National Clearing
	Identification				System Number of the foreign Originating DFI (Alphameric)
6	Originating DFI	75-77	3	Mandatory	This field contains a 2-digit code, as approved by the International
	Branch Country Code				Organization for Standardization, used to identify the country in which
	0040				the branch of the bank that originated the entry is located. On an
					Inbound IAT Entry, this code will identify the country in which the
					branch of the foreign ODFI is located (Alphameric)
7	Reserved	78-87	10	N/A	Leave Blank
8	Entry Detail	88-94	7	Mandatory	This field contains the ascending sequence number section of the
	Sequence Number				Entry Detail Record's trace number. This number is the same as the
					last seven digits of the trace number of the related Entry Detail
					Record (Numeric)

Fifth IAT Addenda Record - Original Entry

The Fifth IAT Addenda Record identifies the Receiving Depository Financial Institution holding the Receiver's account.

				Mandatory/Required/	
#	Field	Position	Length	Optional	Description
1	Record Type Code	01-01	1	Mandatory	Record Type: 7
2	Addenda Type Code	02-03	2	Mandatory	Addenda Type Code: 14
3	Receiving DFI Name	04-38	35	Mandatory	Field contains the name of the Receiving DFI holding the Receiver's account (Alphameric)
					, , , , , , , , , , , , , , , , , , ,
4	Receiving DFI Identification Number Qualifier	39-40	2	Mandatory	This field contains a 2-digit code that identifies the numbering scheme used in the Originating DFI Identification Number Field (Alphameric)
5	Receiving DFI Identification	41-74	34	Mandatory	Foreign RDFI's routing/transit number (Alphameric)
6	Receiving DFI	75-77	3	Mandatory	This field contains a 2-digit code, as approved by the International
	Branch Country Code				Organization for Standardization, used to identify the country in which
					the branch of the bank that receives the entry is located. On an
					Inbound IAT Entry, this code will identify the U.S. as the branch
					location (Alphameric)
7	Reserved	78-87	10	N/A	Leave Blank
8	Entry Detail	88-94	7	Mandatory	This field contains the ascending sequence number section of the
	Sequence Number				Entry Detail Record's trace number. This number is the same as the
					last seven digits of the trace number of the related Entry Detail
					Record (Numeric)

<u>Sixth and Seventh IAT Addenda Records – Original Entry</u>

The Sixth and Seventh IAT Addenda Records identify key information related to the Receiver of the entry.

Sixth IAT Addenda Record

				Mandatory/Required/	
#	Field	Position	Length	Optional	Description
1	Record Type Code	01-01	1	Mandatory	Record Type: 7
2	Addenda Type Code	02-03	2	Mandatory	Addenda Type Code: 15
3	Receiver Identification Number	04-18	15	Optional	Used by the Originator to identify the Receiver or may be used for tracing purposes (Alphameric)
4	Receiver Street Address	19-53	35	Mandatory	Field contains the Receiver's physical street address (Alphameric)
5	Reserved	54-87	34	N/A	Leave Blank
6	Entry Detail Sequence Number	88-94	7	Mandatory	This field contains the ascending sequence number section of the Entry Detail Record's trace number. This number is the same as the last seven digits of the trace number of the related Entry Detail Record (Numeric)

Seventh IAT Addenda Record

				Mandatory/Required/	
#	Field	Position	Length	Optional	Description
1	Record Type Code	01-01	1	Mandatory	Record Type: 7
2	Addenda Type Code	02-03	2	Mandatory	Addenda Type Code: 16
3	Receiver City &	04-38	35	Mandatory	This field contains the city and, if applicable, the state or province of
	State/Province				the Receiver. Asterisks must be used to separate the data elements,
					and the last data element must be followed by a backslash
					(Alphameric)
4	Receiver Country &	39-73	35	Mandatory	This field identifies the receiver's country and postal code, (e.g.,
	Postal Code				'US*64105\'). Data elements must be separated by an asterisk and
					must end with a backslash (Alphameric)
5	Reserved	74-87	14	N/A	Leave Blank
6	Entry Detail	88-94	7	Mandatory	This field contains the ascending sequence number section of the
	Sequence Number				Entry Detail Record's trace number. This number is the same as the
					last seven digits of the trace number of the related Entry Detail
					Record (Numeric)

IAT Addenda Record for Remittance Information (Optional)

IAT entries will accommodate the transmission of optional remittance information.

				Mandatory/Required/	
#	Field	Position	Length	Optional	Description
1	Record Type Code	01-01	1	Mandatory	Record Type: 7
2	Addenda Type Code	02-03	2	Mandatory	Addenda Code Type: 17
3	Payment Related Information	04-83	80	Optional	Free-form text (Alphameric)
4	Addenda Sequence Number	84-87	4	Mandatory	Sequence number of Type Code "17" addenda records in ascending order beginning with 0001 (Numeric)
5	Entry Detail Sequence Number	88-94	7	Mandatory	This field contains the ascending sequence number section of the Entry Detail Record's trace number. This number is the same as the last seven digits of the trace number of the related Entry Detail Record (Numeric)

Note: A maximum of two optional addenda records will be able to accompany an IAT entry.

IAT Addenda Record for Foreign Correspondent Bank Information

IAT Addenda Records for Foreign Correspondent Bank Information applies to Incoming/Received IAT entries only.

				Mandatory/Required/	
#	Field	Position	Length	Optional	Description
1	Record Type Code	01-01	1	Mandatory	Record Type: 7
2	Addenda Type Code	02-03	2	Mandatory	Addenda Code Type: 18
3	Foreign Correspondent Bank Name	04-38	35	Mandatory	This field contains the Foreign Correspondent Bank Name (Alphameric)
4	Foreign Correspondent Bank Identification Number Qualifier	39-40	2	Mandatory	This field contains a 2-digit code that identifies the numbering scheme used in the Foreign Correspondent Bank Identification Number field. Code values for this field are (Alphameric): 1 National Clearing System Number (e.g. U.S. routing number) BIC Code; or IBAN
5	Foreign Correspondent Bank Identification Number	41-74	34	Mandatory	This field contains the Routing Number or bank identification number of the Foreign Correspondent Bank (Alphameric)
6	Foreign Correspondent Bank Branch Country Code	75-77	3	Mandatory	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 Foreign Correspondent Bank is located (Alphameric)
7	Reserved	78-83	6	N/A	Leave Blank
8	Addenda Sequence Number	84-87	4	Mandatory	This number is consecutively assigned to each Addenda Record following an Entry Detail Record. The first addenda sequence number must always be a "1" (Numeric)
9	Entry Detail Sequence Number	88-94	7	Mandatory	This field contains the ascending sequence number section of the Entry Detail Record's trace number. This number is the same as the last seven digits of the trace number of the related Entry Detail Record (Numeric)

Note: Each Foreign Correspondent Bank involved in the processing of an IAT entry must be identified within an Addenda Record for IAT Foreign Correspondent Bank Information.

All Entries Company/Batch Control Record - Original Entry

The Company/Batch Control Record summarizes the information contained within the batch. It contains the counts, hash totals, and total dollar controls for the entries within the batch.

				Mandatory/Required/	
#	Field	Position	Length	Optional	Description
1	Record Type Code	01-01	1	Mandatory	Record Type: 8
2	Service Class	02-04	3	Mandatory	Service Class Code (Numeric):
	Code				200 Debits & Credits
					220 Credits Only
					225 Debits Only
3	Entry/Addenda	05-10	6	Mandatory	Field is a tally of each Entry Detail and Addenda Record processed
	Count				within the batch (Numeric)
4	Entry Hash	11-20	10	Mandatory	Field is prepared by hashing the Routing Number in each entry. The
					Entry Hash provides a check against inadvertent alteration of data
					contents due to hardware or program failure (Numeric)
5	Total Debit Entry Dollar Amount	21-32	12	Mandatory	Accumulated Entry Detail debit totals within the batch
6	Total Credit Entry Dollar Amount	33-44	12	Mandatory	Accumulated Entry Detail credit totals within the batch
7	Company Identification	45-54	10	Required	Field conveys the same information that Is contained within the
					Originator Identification Field of the Company/Batch Header Record,
					i.e. your Commerce Bank ACH Company ID (Alphameric)
8	Message Authentication Code	55-73	19	Optional	(Alphameric)
9	Reserved	74-79	6	N/A	Leave Blank
10	Originating DFI	80-87	8	Mandatory	Field conveys the same information that is contained within the GO
	Identification				Identification/Originating DFI Identification Field of the
					Company/Batch Header Record, i.e. 10100001
11	Batch Number	88-94	7	Mandatory	Sequential batch number within file (Numeric)

All Entries File Control Record - Original Entry

The File Control Record summarizes the information carried in the Company/Batch Control Records. It 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 of batches within the file.

				Mandatory/Required/	
#	Field	Position	Length	Optional	Description
1	Record Type Code	01-01	1	Mandatory	Record Type: 9
2	Batch Count	02-07	6	Mandatory	The value of the Batch Count Field is equal to the number of
					Company/Batch/Header Records in the file (Numeric)
3	Block Count	08-13	6	Mandatory	Number of Blocks within the file (Numeric)
4	Entry/Addenda	14-21	8	Mandatory	Field is a tally of each Entry Detail and Addenda Record processed
	Count				within the batch (Numeric)
5	Entry Hash	22-31	10	Mandatory	Field is prepared by hashing the Routing Number in each entry. The
					Entry Hash provides a check against inadvertent alteration of data
					contents due to hardware or program failure (Numeric)
6	Total Debit Entry	32-43	12	Mandatory	Accumulated Entry Detail debit totals within the batch
	Dollar Amount				
7	Total Credit Entry	44-55	12	Mandatory	Accumulated Entry Detail credit totals within the batch
	Dollar Amount				
8	Reserved	56-94	39	N/A	Leave Blank