Technical Specifications
Accounts Payable to Bank ACH_TS-AP_INTF_002

Specifications confirmed: Jan 17, 2023
Document Ref: ACH_TS-AP_INTF_002
Version: 1.0

Overview

This document defines the technical components required to implement customization
AP_INTF_002-Accounts Payable to Bank ACH_TS.This Customization Technical
Design document complements the Customization Functional Design document for
AP_INTF_002-Accounts Payable to Bank ACH_FS and you should consider this set to
be the complete detailed design.

Business Requirement

The purpose of this interface is to:

- Pass records to the Bank for purposes of initiating electronic payments through ACH mechanism.

- King County has decided to implement Oracle Applications release 12 with Accounts Payable as one of the modules. The County utilizes ACH mechanism to make payments to its suppliers. Those AP payments transactions need to be routed to the Bank for processing in their standard format. Hence, there is a need to modify the standard ACH program which generates electronic transactions to match the format required by the County's Bank.

Validation Logic

Logic for KCAP ACH FTP Payment File

- Payment is submitted to a vendor who is processed through the electronic Payment.

- Once the patyment process is completed, the output file from the program is transferred to the location where it can be picked by Axway to transfer the ACH File to the Bank Specified Mailbox.

- From the detination mailbox US Bank will pickup the file and process the file.

Templates and Sample data Files

- Are attached separately as:

  C-2_Sample1_KCIBYDE

  C-2_Sample2_AP-BANK-ACH

Format Setup:

Hint: Define formatting options…

<TEMPLATE TYPE>	FIXED_POSITION_BASED
<OUTPUT CHARACTER SET>	iso-8859-1
<CASE CONVERSION>	Upper
<NEW RECORD CHARACTER>	Carriage Return

Sequences:

Hint: Define sequence generators…

<DEFINE SEQUENCE>	PaymentsSeq
<RESET AT LEVEL>	OutboundPaymentInstruction
<INCREMENT BASIS>	LEVEL
<START AT>	1
<END DEFINE SEQUENCE >	PaymentsSeq

<DEFINE SEQUENCE>	US_NACHA_CCD_DAILY_SEQ
<RESET AT LEVEL>	PERIODIC_SEQUENCE
<INCREMENT BASIS>	LEVEL
<START AT>	/OutboundPaymentInstruction/PaymentInstructionInfo/PaymentSequence[SequenceName='US_NACHA_CCD_DAILY_SEQ']/LastValue + 1
<MAXIMUM>	26
<END DEFINE SEQUENCE >	US_NACHA_CCD_DAILY_SEQ

Format Data Records:

Hint: This is the body of the format. Define your format records here.
Create one table for each record or group of records that are at the same level.

<BEGIN FILLER BLOCK>	**AllRecordsBlock**
<FILLER CHARACTER>	**9**

<BLOCK SIZE>		10			
<LEVEL>		**OutboundPaymentInstruction**			
<POSITION>	**<LENGTH>**	**<FORMAT>**	**<PAD>**	**<DATA>**	**<COMMENTS>**
<NEW RECORD>		**FILE_HEADER**			
1	1	Number	L, '0'	1	Record Type Code
2	2	Number	L, '0'	1	Priority Code
4	1	Alpha	R, ' '		Immediate Destination: the first position is a blank
5	9	Number	L, '0'	InstructionGrouping/BankAccount/BranchNumber	Immediate Destination: the second to the tenth position of this field is the ABA routing number of the receiving bank of this payment file. The ABA routing number is a nine digit number composed of three parts. The first four digits are the Federal Reserve Routing Symbol; the next four digits are the ABA Institution Identifer; and the last one digit is the check digit.
14	1	Number	L, '0'	1	Immediate Origin: mutually defined – ANSI one-digit ICD
15	9	Alpha	L, '0'	**REPLACE**(InstructionGrouping/Payer/LegalEntityRegistrationNumber, '-')	Immediate Origin
24	6	Date, YYMMDD		**SYSDATE**	File Creation Date
30	4	Date, HH24MI		**SYSDATE**	File Creation Time (Military Time)
34	1	Alpha	R, ' '	**DECODE**(**SEQUENCE_NUMBER**(US_NACHA_CCD_DAILY_SEQ), 1, 'A', 2, 'B', 3, 'C', 4, 'D', 5, 'E', 6, 'F', 7, 'G', 8, 'H', 9, 'I', 10, 'J', 11, 'K', 12, 'L', 13, 'M', 14, 'N', 15, 'O', 16, 'P', 17, 'Q', 18, 'R', 19, 'S', 20, 'T', 21, 'U', 22, 'V',	File ID Modifier.

				23, 'W', 24, 'X', 25, 'Y', 26, 'Z')	
35	3	Number	L, '0'	94	Record Size
38	2	Number	L, '0'	10	Blocking Factor
40	1	Number	L, '0'	1	Format Code
41	23	Alpha	R, ' '	InstructionGrouping/BankAccount/BranchName	Immediate Destination Name
64	23	Alpha	R, ' '	InstructionGrouping/Payer/LegalEntityName	Immediate Origin Name.
87	8	Alpha	R, ' '		Optional Reference Code.
<NEW RECORD>			**BATCH_HEADER**		
1	1	Number	L, '0'	5	Record Type Code
2	3	Number	L, '0'	220	Service Class Code
5	16	Alpha	R, ' '	InstructionGrouping/Payer/LegalEntityName	Company Name
21	20	Alpha	R, ' '	PaymentInstructionInfo/InstructionReferenceNumber	Company Discretionary Data
41	1	Number	L, '0'	6	Company Identification: first position is ANSI one-digit ICD (Identification Code Designators): 1 = IRS Employer Identification Number (EIN) 3 = Data Universal Numbering Systems (DUNS) 9 = Mutually Defined
42	9	Alpha	L,'0'	**REPLACE**(InstructionGrouping/Payer/LegalEntityRegistrationNumber, '-')	Company Identification. Same as position 14 in the file header rec
51	3	Alpha	R, ' '	'CCD'	Standard Entry Class Cpde
54	10	Alpha	R, ' '	PaymentInstructionInfo/UserAssignedRefCode	Company Entry Description.
64	6	Date, YYMMDD	R, ' '	InstructionGrouping/PaymentDate	Company Descriptive Date. NACHA recommends but does not require that RDFIs print this value on the receiver's statement.
70	6	Date, YYMMDD		InstructionGrouping/PaymentDate	Effective Entry Date

3

76	3	Alpha	R, ' '		Settlement date. Reserved for ACH operator. Leave blank
79	1	Number	L, '0'	1	Originator Status Code
80	8	Number	L, '0'	**SUBSTR**(InstructionGrouping/BankAccount/BranchNumber,1,8)	Originating DFI Identification. This is the first 8 digits of the ABA routing number of the receiving bank (internal bank) – without the check digit.
88	7	Number	L, '0'	1	Batch Number. This is the sequence number for the batch – it must match position 88 to 94 of batch control rec.

<LEVEL>		OutboundPayment			
<SORT ASCENDING>		**Payee/Name**			
<POSITION>	**<LENGTH>**	**<FORMAT>**	**<PAD>**	**<DATA>**	**<COMMENTS>**
<NEW RECORD>		**ENTRY_DETAIL_CR**			
1	1	Number	L, '0'	6	Record type
2	2	Alpha	R, ' '	**IF NVL**(PayeeBankAccount/BankAccountType/Code, 'CHECKING') = 'CHECKING' **THEN** **DECODE**(PaymentAmount/Value, 0,'23','22') **ELSIF** PayeeBankAccount/BankAccountType/Code = 'SAVINGS' **THEN** **DECODE**(PaymentAmount/Value, 0,'33','32') **END IF**	Transaction Code
4	9	Number	L, '0'	PayeeBankAccount/BranchNumber	Receiving DFI Identification (including check digit)
13	17	Alpha	R, ' '	PayeeBankAccount/BankAccountNumber	DFI Account Number

30	10	Number, Integer	L, '0'	**ROUND**(PaymentAmount/Value *100)	Amount
40	15	Alpha	R, ' '	PaymentNumber/PaymentReferenceNumber	Identification Number
55	22	Alpha	R, ' '	**IF** (Payee/AlternateName) **<>** `''` **THEN** (Payee/AlternateName) **ELSE** (Payee/Name) **END IF**	Receiving Company Name/ID Number
77	2	Alpha	R, ' '		Discretionary Data
79	1	Number	L, '0'	0	Addenda record Indicator
80	8	Number	L, '0'	**SUBSTR**(BankAccount/BranchNumber,1,8)	ODFI Routing Number
88	7	Number	L, '0'	**SEQUENCE_NUMBER**(PaymentsSeq)	Numeric sequence starting at 1 within the batch
<END LEVEL>		**OutboundPayment**			

<LEVEL>		**OutboundPaymentInstruction**			
<POSITION>	**<LENGTH>**	**<FORMAT>**	**<PAD>**	**<DATA>**	**<COMMENTS>**
<NEW RECORD>		**BATCH_CONTROL**			
1	1	Number	L, '0'	8	Record Type Code
2	3	Number	L, '0'	220	Service Class Code
5	6	Number	L, '0'	InstructionTotals/PaymentCount	Entry/Addenda count
11	10	Number	L, '0'	**SUM**(**TO_NUMBER**(**SUBSTR** (OutboundPayment/PayeeBankAccount/BranchNumber,1,8)))	Entry Hash
21	12	Number, Integer	L, '0'	0	Total Debit Dollar Amount of Batch
33	12	Number, Integer	L, '0'	**ROUND**(**SUM**(OutboundPayment /PaymentAmount/Value)*100)	Total Credit Dollar Amount of Batch
45	1	Number	L, '0'	6	Company Identification: first position is ANSI one-digit ICD (Identification Code Designators): 1 = IRS Employer Identification Number (EIN)

					3 = Data Universal Numbering Systems (DUNS) 9 = Mutually Defined
46	9	Alpha	L,'0'	**REPLACE**(InstructionGrouping/Payer/LegalEntityRegistrationNumber, '-')	Company Identification. Same as position 14 in the file header rec
55	25	Alpha	R, ' '		Message Authentication Code AND Reserved Space
80	8	Number	L, '0'	**SUBSTR**(InstructionGrouping/BankAccount/BranchNumber,1,8)	Originating DFI Identification
88	7	Number	L, '0'	1	Batch Number. Same as last field of Record 5
<NEW RECORD>		**FILE_CONTROL**			
1	1	Number	L, '0'	9	Record Type Code
2	6	Number	L, '0'	1	Batch Count
8	6	Number	L, '0'	**CEIL**((**COUNT**(OutboundPayment)+4) **DIV** (10))	Block Count. Total number of records in the file, divided by ten and rounded up. All records, including both the File Header and File Control Records are included in the block count.
14	8	Number	L, '0'	InstructionTotals/PaymentCount	Entry/Addenda Count.
22	10	Number	L, '0'	**SUM**(**TO_NUMBER**(**SUBSTR**(OutboundPayment/PayeeBankAccount/BranchNumber,1,8)))	Entry Hash
32	12	Number, Integer	L, '0'	0	Total Debit Entry Dollar Amount in File
44	12	Number, Integer	L, '0'	**ROUND**(**SUM**(OutboundPayment/PaymentAmount/Value)*100)	Total Credit Entry Dollar Amount in File
56	39	Alpha	R, ' '		Blank
<END LEVEL>		**OutboundPaymentInstruction**			

<END FILLER BLOCK>		**AllRecordsBlock**			

```
101 XXXXXXXXXX1XXXXXXXXX1403031844T094101BLT BANK                  KING COUNTY
5220KING COUNTY      27395              6XXXXXXXXXCCD140303-011140304140304    1XXXXXXXX0000001
622XXXXXXX2093820-8181        0002912497502924        MMP CONTRACTORS         0XXXXXXXX0000001
622XXXXXXX104202821390        0006354402502915        MMP CONTRACTORS         0XXXXXXXX0000002
622XXXXXXX9861167-04385806    0002614925502929        CENTER FOR GREG         0XXXXXXXX0000003
622XXXXXXX105153595023810     0004590707502934        BACK    NORTHWEST LLC   0XXXXXXXX0000004
622XXXXXXX024000054091046     0000004380502918        TOM GRAPHICS            0XXXXXXXX0000005
622XXXXXXX146100002020        0002280791502933        DECADE SOFTWARE COMPAN  0XXXXXXXX0000006
622XXXXXXX2484121860738       0000571900502938        MEDICAL GROU            0XXXXXXXX0000007
622XXXXXXX1915606029628       0001217442502940        KENT SALVATION          0XXXXXXXX0000012
622XXXXXXX574479681013658     0020487289502936        FRENCH AND SONS INC     0XXXXXXXX0000014
622XXXXXXX2484121682710       0006582826502923        LITTLE TRAFFIC          0XXXXXXXX0000021
622XXXXXXX8127460554111       0000421875502919        LBGINC INC              0XXXXXXXX0000025
622XXXXXXX4963120004394       0010940858502921        SONOCAST  INC           0XXXXXXXX0000026
622XXXXXXX5742665000715       0001421528502912        FALLOM GENERAL          0XXXXXXXX0000027
622XXXXXXX4509001314731       0000676006502928        EASTSIDE SERVICE        0XXXXXXXX0000030
8220000030XXXXXXXXX000000000000001424071426XXXXXXXXX                           XXXXXXXX0000001
90000010000040000030XXXXXXXXX0000000000000001424071426
9999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999
9999999999999999999999999999999999999999999999999999999999999999999999999999999999
```