

3.0 Appendix B – Project Aspire Enhancement Functional Design

ADML ID	1841
ADML Description	Custom App Engine job to perform One-to-Many Bank Reconciliation
ADML Tech#	

3.1 Background

3.1.1 Functional Requirement

The Wachovia EFT account is used to issue EFT payments. Multiple EFT payments are issued on a given day, but the Wachovia EFT account is debited with one lump-sum amount (sum of all the EFT payments for a given day).

One lump-sum amount on the bank statement (BAI file) needs to be reconciled to multiple system-side transactions.

In the case of ACH and paper returns for the BOA Master account, one deposit is made for each Business Unit and there could be one or more transactions on the bank statement. Therefore, a Many-to-Many bank reconciliation has to be performed for this account.

3.1.2 Delivered Functionality

As delivered Aspire does not provide the ability to reconcile one bank side transaction to multiple system side transactions (only One-To-One Reconciliation can be performed).

3.1.3 Gap Description

Need to perform a One-To-Many and/or Many-To-Many Automatic bank reconciliation.

3.2 Description of New Functionality

The delivered reconciliation process is a very complicated and robust process (requiring complex configuration and setting up of numerous Reconciliation rules), hence making it extremely difficult to enhance or customize.

As an alternative, The Treasury team has decided to design a custom App Engine process to perform One-to-Many and/or Many-to-Many automatic bank reconciliation as needed. The custom App Engine process will sum up all the system side transactions on a given day and if the total matches with the bank statement, then both bank statement and system side transactions are marked as reconciled. If there are any discrepancies, Error reports are created and the custom App Engine process will end with an Error status. Delivered Automatic Reconciliation process will then be run to reconcile all other transactions.

3.3 Navigation path

Banking -> Reconcile Statements -> One-To-Many Reconciliation

3.4 Set Up/Control Data

Banks and External Accounts should be setup.

3.5 Application Changes (e.g., Pages, Components, Menus, Records, App Engines, SQRs, etc.)

- A new Run Control page (along with a new run control record and component associated with it) should be created as shown below. Please refer to Banking -> Reconcile Statements -> Process Reconciliation page for the underlying record structure.

Process Reconciliation

Run Control ID: AUTO_RECON [Report Manager](#) [Process Monitor](#) Run

Parameters Find | View All First 1 of 1 Last

Process Frequency + -

Once
 Always
 Don't Run

'Request Number: 1

Request Parameters

'Bank ID: 063100277

'Bank Account #: 001000004444

Stmt ID: 15

- In addition, a new setup page should be created to define the criteria to be used by the process to perform auto-reconciliation. The page should contain the following information:

Field Name	Description	Type	Key	Prompt Table
LEVEL 0				
BNK_ID_NBR	External Bank ID	Char/20	Y	FL_BANK_CD_VW3
BANK_ACCOUNT_NUM	Bank Account #	Char/17	Y	FL_BANKACCT_VW2
RECNAME	Recon Record Name	Char/15	N	RCN_RECORD_TBL
FL_RCN_CRITERIA (please see note below)	Recon Criteria	Char/15	N	N/A
LEVEL 1				
BANK_STMT_CODE	Bank Statement Code (BAI code)	Char/8	N	BSP_TXN_CODE_VW

Recon Criteria - Label for this field should change dynamically based on the Account type

If the Account is an AR Account, then the field label should display PeopleSoft delivered field “Deposit Type:” with valid values.

If the Account is an AP Account, then the field label should display PeopleSoft delivered field “Payment Method” with valid values.

- A new custom App Engine process should be created to perform the One-To-Many / Many-To-Many auto-reconciliation. Below is the processing logic for the App Engine:

Select SUM (RECON_TRAN_AMT) from PS_BANK_STMT_TBL where criteria = criteria from the run control page (if Stmt ID is blank all Statements should be selected and Grouped by RECON_BANK_DT) AND BANK_STMT_CODE = List of Bank Statement Codes configured in the setup page AND RECON_STATUS <> "REC"

If the Account is an AP Account

Select SUM (PYMNT_AMT) from "Recon Record Name" configured in the setup page where criteria = criteria from the run control page and Recon Record Name.PYMNT_DT = PS_BANK_STMT_TBL.RECON_BANK_DT and Recon Record Name.PYMNT_METHOD = "Criteria from the setup page" and Recon Record Name.RECON_STATUS <> "REC"

If SUM (PS_BANK_STMT_TBL.RECON_TRAN_AMT) = SUM (PS_BNK_RCN_DISBRSE.PYMNT_AMT) Then

Update "Recon Record Name" configured in the setup page record

Set RECON_STATUS = "REC"

RECON_CYCLE_NBR = PS_BANK_STMT_TBL.RECON_CYCLE_NBR,

PYMNT_RECONCILE_DT = System Date

RECONCILE_OPRID = "One-To-Many"

RECON_TYPE = "A"

RECON_RUN_ID = PS_BANK_STMT_TBL.RECORD_SEQ_NUMBER

STTLMNT_DT_ACTUAL = PS_BANK_STMT_TBL.RECON_BANK_DT;

Update PS_BANK_STMT_TBL Record

Set RECON_STATUS = "REC"

PROCESS_INSTANCE = Process Instances of the process;

Mark the process Run Status as "Successful" by writing appropriate messages to the Log file.

Else

Mark the process Run Status as "Error" and create an Error Log with the following Error Message:

'One-To-Many Reconciliation process has finished with an Error Status, since Amounts does not Match for Statement ID "Stmnt ID" and Value Date "PS_BANK_STMT_TBL.RECON_BANK_DT"

Bank Statement Total Amount is: SUM (RECON_TRAN_AMT)'

System Side Total Amount is: SUM (PYMNT_AMT)'.

If the Account is an AR Account

Select SUM (CONTROL_AMT) from "Recon Record Name" configured in the setup page where criteria = criteria from the run control page and Recon Record Name.PYMNT_DT = PS_BANK_STMT_TBL.RECON_BANK_DT and Recon Record Name.PYMNT_METHOD = "Criteria from the setup page" and Recon Record Name.RECON_STATUS <> "REC"

If SUM (PS_BANK_STMT_TBL. RECON_TRAN_AMT) = SUM (Recon Record Name.CONTROL_AMT) Then

Update "Recon Record Name" configured in the setup page record

Set RECON_STATUS = "REC"

RECON_CYCLE_NBR = PS_BANK_STMT_TBL .RECON_CYCLE_NBR,

RECONCILE_DT = System Date

RECONCILE_OPRID = "One-To-Many"

RECON TYPE = "A"

RECON_RUN_ID = PS_BANK_STMT_TBL .RECORD_SEQ_NUMBER

STTLMNT_DT_ACTUAL = PS_BANK_STMT_TBL .RECON_BANK_DT;

Update PS_BANK_STMT_TBL Record

Set RECON_STATUS = "REC"

PROCESS_INSTANCE = Process Instances of the process;

Mark the process Run Status as "Successful" by writing appropriate messages to the Log file.

Else

Mark the process Run Status as “Error” and create an Error Log with the following Error Message:

‘One-To-Many/Many-To_Many Reconciliation process has finished with an Error Status, since Amounts do not Match for Statement ID “Stmnt ID” and Value Date “PS_BANK_STMT_TBL.RECON_BANK_DT”

Bank Statement Total Amount is: SUM (RECON_TRAN_AMT)’

System Side Total Amount is: SUM (CONTROL_AMT)’.

- Create a new Process Definition for the custom App Engine process.

3.6 Unit Test Considerations

- The App Engine process should complete with appropriate status – Success or Error.
- If the process ends with an Error status, confirm that an Error Log is generated.

3.7 Miscellaneous

N/A

3.8 Assumptions

- One-To-Many/Many-To-Many reconciliation process may be scheduled to run daily or can be run ad-hoc.
- Reconciliation users will select only those accounts that are eligible for a One-To-Many Reconciliation (a system control is not in place with the current design).