A picture containing ball, design

Description automatically generated

**Feature :** F238005

**Description :** Turn on Fraudchex AIF Batch job and send alerts to support when not running.

**Userstory :**US1604385

**Description :** FX AIF Batch - generate report from Jun 1st to Jun 4th.

**Issue Description :**  FX AIF Batch issue got resolved (refer US1596341) but historical data from Jun 1st to Jun 4th needs to be extracted.

**Solution :** create/ modify existing job to generate AIF report from Jun 1st to Jun 4th.

**Purpose:**

This document aims to help the users to understand the logic implemented for running FX AIF Batch Adhoc Program.

**Detailed Explanation of FraudChex AIF Batch Application Adhoc program**

* Modified the existing FraudChex AIF Batch Integrator application to run for historical data
  + ( June 1st, June 2nd, June 3rd and Jun 4th ).
* This Adhoc program will not impact the existing behavioral of FX AIF Batch application.
* This Adhoc Program will start by fetching the master customer ID and the start date which passed as VM arguments by the shell script.
* Example ./startfraudchexaifbatch\_adhoc.sh 56878174 06022023
* The master customer ID should be an existing customer and no new customers will be configured through this adhoc program.
* Here the start date should be the single date. eg 06022023.
* It should be in the format of MMddyyyy.

**Implementation:**

* This Adhoc program will start by fetching the input details for processing the AIF BATCH FILE.
* Checking the passed argument length, if the argument length is 2, it will validate the argument[0] .ie the MasterCustomerID should be an 8 digit character. The argument[1] is the start date should be in the format of MMDDYYYY. Added future date validation also, if future date is provided it will throw Exception as Given Input Date is a future Date, the application will not run.
* Since it is a historical run and User must start the script with no future date.
* If the argument length is 0 or any other length expect 2 it will throw exception has “Please provide Master CustId, Start date values in this date format MMddyyyy Example: StartDate = 06012023. Historical run for a given particular day".
* Appropriate log messages are added which provide valuable information about the execution flow and helps to troubleshoot any potential issues encountered during runtime.
* After validating the input , it will create an empty file in the mentioned path as below.

filename = **AIFBatch\_56878174\_20230602034428.in**

file name with full path = /appl2/artifacts-repo/fc/fraudchexaifbatchintegrator/reports/AIFBatch\_56878174\_20230602034428.in

* Creating a Unique ID for Transaction which is **batchFileID**

eg BatchFileID **🡪** 4417699D5C2B40AABA805CE65519F0D5.

* This Adhoc program will perform SQL Insert operation in FC\_AIF\_BATCH\_AUDT\_LOG table.
* Batch status are tracked in this table FC\_AIF\_BATCH\_AUDT\_LOG for auditing purpose , which will help SCE or team to track the batch status.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| BATCH\_FILE\_ID | CREAT\_TS | MSTR\_CUST\_ID | STAT\_MSG\_CD | ERR\_MSG\_TXT |
| 101 | 4/3/2020 | 10000000 | 100 | Batch InProgress |
| 102 | 4/4/2020 | 10000000 | 103 | Batch failed during matching process |
| 103 | 4/5/2020 | 10000000 | 103 | Batch failed during IDInsight file post |
| 105 | 4/5/2020 | 10000000 | 104 | AIF file not received |
| 104 | 4/5/2020 | 10000000 | 105 | Batch Completed |

* It will make a new entry in table with unique batch file ID, STAT\_MSG\_CD as 100, ERR\_MSG\_TXT as Batch Inprogress, CREAT\_USER\_NM as ADHOC\_BATCHUSER, masterCustID will be given input date, UPDT\_USER\_NM as ADHOC\_BATCHUSER, CREAT\_TS and UPDT\_TS will be the given input date.

ie 06022023( June 2nd year 2023 with current time).

In the below Image we can see the create\_ts and updt\_ts column entry as June 2nd which we passed as argument, to look like job ran on June 2nd.



* Initiating the Spring Batch job with parameters

**filePath** variable holds the value 🡪

/appl2/artifacts-repo/fc/fraudchexaifbatchintegrator/reports/AIFBatch\_56878174\_20230602034428.in

**PARAMETER\_MASTER\_CUST\_ID** = "masterCustID" 🡪 56878174

**PARAMETER\_BATCH\_FILE\_ID** = "batcFileID" 🡪 CB68AD3A90D84EA689A32FC43E24A3DD

**PARAMETER\_CHANNEL\_TYPE\_CODE** = "channel\_type\_code" 🡪 CO

**PARAMETER\_LOOK\_BACK\_DAYS** = "look\_back\_days" 🡪 10

**PARAMETER\_RECORD\_TYPE\_CODE** = "record\_type\_cd" 🡪 NT | BT

**PARAMETER\_FROM\_DATE** 🡪06022023

**PARAMETER\_TO\_DATE** 🡪06022023

**PARAMETER\_FILENAME** 🡪AIFBatch\_56878174\_20230602034428.in

* The SpringBatch job execution will run with above job parameters and it also has the meta information about the job.
* By using Job Reader, we are executing the select query from TFF\_ACCT\_INFO table, to fetch the record on that given input date. ie 06022023

**QUERY :**

SELECT MSTR\_CUST\_ID,CUST\_ID,ADDR\_LINE\_1\_TXT,PSTL\_CD,PR\_FIRST\_NM,PR\_LAST\_NM,GOVT\_NBR,GOVT\_NBR\_TYPE\_CD,DL\_NBR,DL\_ST\_CD

FROM TFF\_ACCT\_INFO WHERE MSTR\_CUST\_ID='56878174' AND FILE\_REC\_CREAT\_DT >= TO\_DATE('06022023','MMDDYYYY') AND FILE\_REC\_CREAT\_DT < TO\_DATE('06022023','MMDDYYYY')+1;

**QUERY RESULT:**

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* After fetching the records from TFF\_ACCT\_INFO table , this program will start to fetch Fraudchex Inquiry details by master customer ID for last lookBackDays ie 10 days.

**QUERY :**

SELECT TRANS\_ID,CREAT\_TS,CUST\_ID,QF\_INQ\_ID,MSTR\_CUST\_ID,GOVT\_NBR,DL\_NBR,DL\_ST\_CD,FIRST\_NM,LAST\_NM,ADDR\_LINE\_1\_TXT,PSTL\_CD,'ENQUIRY' AS TABLE\_NAME FROM FC\_INQ\_LOG WHERE MSTR\_CUST\_ID = '56878174' AND CHANL\_TYPE\_CD IN ('CO') AND REC\_TYPE\_CD IN ('BT') AND CREAT\_TS >= TRUNC(TO\_DATE('06022023','MMDDYYYY')-10) AND CREAT\_TS < TRUNC(TO\_DATE('06022023','MMDDYYYY')+1) UNION SELECT TRANS\_ID,CREAT\_TS,CUST\_ID,QF\_INQ\_ID,MSTR\_CUST\_ID,GOVT\_NBR,DL\_NBR,DL\_ST\_CD,FIRST\_NM,LAST\_NM,ADDR\_LINE\_1\_TXT,PSTL\_CD,'ERROR' AS TABLE\_NAME FROM FC\_INQ\_ERR\_LOG WHERE MSTR\_CUST\_ID= '56878174' AND CHANL\_TYPE\_CD IN ('CO') AND REC\_TYPE\_CD IN ('BT') AND CREAT\_TS >= TRUNC(TO\_DATE('06022023','MMDDYYYY')-10) AND CREAT\_TS < TRUNC(TO\_DATE('06022023','MMDDYYYY')+1);

**QUERY RESULT:**

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* After fetching the records for the last 10 days from the given input date, this job will implement the actual business logic to perform AIF matching.
* This Adhoc program will perform SQL Update query to update the AIF match results in both FC\_INQ\_LOG and FC\_INQ\_ERR\_LOG table.
* Update Query will update AIF\_MTCH\_CD, AIF\_MTCH\_DT ,AIF\_MTCH\_FLDS\_TXT, UPDT\_TS, UPDT\_USER\_NM by using condition where TRANS\_ID and CREAT\_TS >= inputdate (06022023) in both FC\_INQ\_LOG and FC\_INQ\_ERR\_LOG.
* After updating the AIF Match details, it will write into the file as per spec.
* The file contains the AIF match details with TRANS\_ID, QF\_INQ\_ID and AIF\_MTCH\_CD and the matched record count.
* Getting exitstatus of the job, if the job status is failed, it will throw exception as Batch Job Failed.
* After writing into the file, the program will check the record count.
* If the record count is 0, which means no matching found, the application won’t post the file to Kevari (Idinsight).
* Once the matching job completed and if the record count is greater than 0, post the file to Kevari (Idinsight).
* This Adhoc program will update the filename,record count into audit log table FC\_AIF\_BATCH\_AUDT\_LOG.
* If there is any error occurred while processing for AIF batch, it will update the audit log table FC\_AIF\_BATCH\_AUDT\_LOG with appropriate error message and status code and it will send email notification.

**Short Description:**

This Adhoc Program will not impact the current implementation of FX AIF Batch Match Processing.

This Adhoc program will not look on the table TFF\_BATCH\_CNFGR whether any new file arrived in today’s date.

Questions Raised by SCE / SME.

1. **Why this Adhoc Program does not run for all customers ?**

Current FX AIF Batch application will perform AIF matching only if there is an in entry FraudFinder.TFF\_BATCH\_CNFGR for current sysdate and the record details are stored in FraudFinder.TFF\_ACCT\_INFO. meaning we have received AIF file for today and we can proceed inquiry matching with AIF data. It will look the column AIF\_RCVD\_TS with Todays date.

It will check FraudFinder.TFF\_BATCH\_CNFGR table

select \* from ff.tff\_batch\_cnfgr where file\_purpose\_cd ='AIF01' AND CUST\_ID = '56878174' order by aif\_rcvd\_ts desc;

1. Why this Adhoc Program does not run for a date range?