Service Request 100723
Open Enrollment 2015 PPS Changes

Technical Specification
## Version History

<table>
<thead>
<tr>
<th>Version #</th>
<th>Date</th>
<th>Revised By</th>
<th>Reason for Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>7/22/14</td>
<td>Maxine Gerber</td>
<td>Initial Draft</td>
</tr>
<tr>
<td>2.0</td>
<td>8/11/14</td>
<td>Maxine Gerber</td>
<td>Added testing information</td>
</tr>
<tr>
<td>3.0</td>
<td>9/9/14</td>
<td>Maxine Gerber</td>
<td>Finalize</td>
</tr>
<tr>
<td>3.1</td>
<td>11/12/14</td>
<td>Maxine Gerber</td>
<td>Corrected old severity code on messages.</td>
</tr>
</tbody>
</table>
# Table of Contents

Version History ................................................................. 1

1 Introduction........................................................................ 3
  1.1.1 Service Request 100723.................................................. 3

2 Background ........................................................................ 3

3 Overview of System Modifications ...................................... 3
  3.1.1 EDB Maintenance Process............................................. 3
  3.1.2 Control table updates .................................................... 3

4 Design Considerations ....................................................... 3
  4.1 Assumptions and Dependencies........................................ 3
  4.2 External Impact............................................................... 3

5 Testing Considerations ...................................................... 3

6 Mainframe Design ............................................................. 4
  6.1 EDB Maintenance........................................................... 4
    6.1.1 Cobol Programs......................................................... 4
    6.1.2 Control Table Updates............................................... 6
    6.1.3 JCL Changes........................................................... 7

7 Unit Testing Requirements .................................................. 7
1 Introduction

1.1.1 Service Request 100723
This service request asks that a new annual process be developed to generate GTN employer contributions transactions for employees who are continuing with the HSA plan into the following year. In addition the GTN table is being updated.

2 Background

The Payroll and Personnel System (PPS) requires a means to set up the GTN to provide the HSA employer contribution for employees who are enrolled and continuing in the High Deductible Health Savings Plan for a following year. This BRD provides requirements for an annual process to accomplish this as an additional step in the year-end processing sequence.

There is also a control table update needed to adjust the maximum employee contribution GTN for the HSA.

3 Overview of System Modifications

3.1.1 EDB Maintenance Process
A new program will be developed to generate transactions to be fed into a batch EDB maintenance cycle.

3.1.2 Control table updates
The BRD provides transactions to update the maximum employee contribution to the HSA.

4 Design Considerations

4.1 Assumptions and Dependencies

- None

4.2 External Impact
The new program will run after all transactions produced by AYSO Open Enrollment have been applied to the EDB.

5 Testing Considerations

The new program should be tested with employees set up to reflect a variety of test conditions. The generated transactions should be run through an EDB update batch process to verify the expected results.
6 Mainframe Design

6.1 EDB Maintenance

6.1.1 Cobol Programs

6.1.1.1 PPP575 (New)

PPP575 will be a new program to generate EDB update transactions for the HSA contribution GTNs for continuing HSA participants. It will be run annually after the OE II transactions have been applied to the EDB.

Inputs and Outputs

Inputs

- Run Specification
- DB2 Tables:
  - PPPBEN
  - PPPPER
  - PPPFCB
  - PPPDBL
  - PPPDEP
  - PPPCCR

Outputs

- EDB Update X1 Transactions
- Tab-delimited report file
- Standard error message report
- Standard control report

WORKING-STORAGE

- Run specification layout. Fields are:
  - Standard run spec label
  - Plan year (usually the next calendar year)
- Tab delimited report file layout. Fields are:
  - Location code
  - Employee ID
  - Coverage Code
  - X1 Amount
- Layout for batch header. See PAY.ONET.COBO(PPO2029B)
- Layout for X1 transactions. See PAY.ONET.COBO(PPO2029B)
- Layout for message report.
- Layout for control report.
Dependent array, COPY CPWSEDEP.

Interface to program PPCOVEDB, COPY CPLNKCV2.

Interface to program PPDEPUTL, CPLNKDEP

DB2 Cursors

- Cursor on PPPBEN joined with PPPPER to select non-separated employees currently enrolled in the HSA health plan.

```sql
DECLARE BEN_CSR CURSOR FOR
   SELECT BEN.EMPLOYEE_ID, BEN.HEALTH_COVEN_DATE
   FROM PPPVZBEN_BEN BEN,
       PPPVZPER_PER PER,
   WHERE BEN.EMPLOYEE_ID = PER.EMPLOYEE_ID
   AND (PER.SEPARATE_DATE >= [01/01 of plan year]
       OR PER.SEPARATE_DATE = '0001-01-01')
   AND HLTH_PLAN = 'SP'
   AND (HEALTH_COVEN_DATE = '0001-01-01'
       OR HEALTH_COVEN_DATE > [11/30 of (plan year - 1)])
```

PROCEDURE DIVISION

1. Program initialization
   a. Open files
   b. Read and validate spec card. If invalid, exit with return code and error message.
   c. Open the BEN cursor
   d. Fetch the cursor. If EOF, exit with return code and error message.
   e. Format and write the batch header record for the transaction file. Use 001 for the batch number, ‘HSA’ for the batch origin code. Obtain the location code from the campus CCR record. See PAY.ONET.COBOL(PPO2029B).

2. Main loop. For each employee in the cursor:
   a. See if there’s an FCB row for the employee

```
SELECT 1
INTO :WS-ONE
FROM PPPVZFCB_FCB
WHERE
   FCB_COVFF_DATE >= PPPBEN.HLTH_COVFFDATE AND
   FCB_COVFF_DATE <= 1/1 plan year AND
   FCB_BENEFIT_TYPE = 'M' AND
   FCB_PLAN_INFO_DATA <> 'SP'
   AND EMPLOYEE_ID = :EMPLOYEE-ID OF BEN-ROW
FETCH FIRST 1 ROW ONLY

```

If a record exists (SQLCODE = 0), then the employee enrolled in a new plan or opted out of medical effective on or before 1/1, so is not continuing in SP, so bypass this employee (exit loop).
b. Look for a DBL row with GTN number 613 balance type G or D.

```sql
SELECT GTN_AMT
  INTO :WS-G-BAL-AMT
  FROM PPPVZDBL_DBL
  WHERE EMPLOYEE_ID = :EMPLOYEE-ID OF BEN-ROW
  AND GTN_NUMBER = '613'
  AND GTN_IND = 'G'

SELECT GTN_AMT
  INTO :WS-D-BAL-AMT
  FROM PPPVZDBL_DBL
  WHERE EMPLOYEE_ID = :EMPLOYEE-ID OF BEN-ROW
  AND GTN_NUMBER = '613'
  AND GTN_IND = 'D'
```

If either is found and the amounts are not = 0:
- If the amounts are both 500 or both 1000, bypass this employee (exit loop).
- If the amounts are not both 500 or both 1000, write a warning message, and proceed to the next step.

Note that DBL not found is the most common case. A DBL row will never have a zero amount, it will simply not be present.

If the employee has not been excluded at this point, continue:

c. Call PPDEPUTL to populate the dependent array for the employee.
d. Call PPCOVEDB to determine the medical coverage code as of 1/1 plan year. Set interface fields as follows:

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>KCV2-BENEFIT-TYPE</td>
<td>M</td>
</tr>
<tr>
<td>KCV2-PLAN-END-DATE</td>
<td>HEALTH-COVED-DATE OF BEN-ROW</td>
</tr>
<tr>
<td>KCV2-EFFECTIVE-DATE</td>
<td>01/01 + plan year</td>
</tr>
</tbody>
</table>

e. Create X1 transactions for GTN 613G and 613D for the employee:
   - If coverage code is U, set both amounts to $500 and write the X1 transactions
   - If coverage code is UA, UC or UAC, set both amounts to $1000 and write the X1 transactions
   - Otherwise, report an exception on the error report and bypass this employee (exit loop)
f. If X1 transactions written, write a record to the tab-deliminated report file.

3. End of Job Processing
   a. Close cursor
   b. Close files
   c. Write control report

### 6.1.2 Control Table Updates

#### 6.1.2.1 CTL Database

UPAY forms are included with the requirements document and will contain detailed CTL update transactions. These will be keyed by the programmer and applied to the CTL database by running program PPP004.

#### 6.1.2.1.1 PPPGTN

PPPGTN contains data for each deduction/reduction/contribution to calculate net pay, such as the scheduling of the GTN, balances to be maintained for the GTN, calculation routines, permitted values, related GTNs, and FAU information for expense distribution.

It will be updated with the transaction provided on UPAY545 with the BRD, which will change the HSA employee contribution maximum.
6.1.2.1.2 PPPMSG

PPPMSG contains the message text, severity, and reporting requirements for error and warning messages. It will be updated with new messages used in new program PPP575.

A085751001 5 8 SPEC CARD MISSING; PROGRAM ABEND
A085752001 3 3 PRIOR CONTENTS OVERWRITTEN GTN 613
A085753001 5 8 INVALID SPEC- FGM-ID PROGRAM-ABEND
A085754001 5 8 INVALID SPEC DATE PASSED TO FGM-ABEND
A085755001 5 8 NO CCR ROW FOUND
A085756001 5 8 DB2 CCR SELECT ERROR
A085757001 5 8 DB2 BEN NO ROWS
A085758001 5 8 DB2 BEN SELECT ERROR
A085759101 5 8 DB2 PER SELECT ERROR
A085762001 5 8 DB2 DBL SELECT ERROR
A085763001 5 8 PPDEPUTL ERROR
A085764001 5 8 PPCOVEDB ERROR
A085765001 3 3 COVERAGE CODE NOT U UA UC OR UAC

6.1.3 JCL Changes

6.1.3.1 RUN575

Sample JCL to run new program PPP575

7 Unit Testing Requirements

The following test cases should be set up in the EDB prior to running PPP575. This will simulate the results after the OE 2 batch has run.

<table>
<thead>
<tr>
<th>Test Case</th>
<th>Expected Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Employee enrolled in HSA has no changes to plan or coverage, and no</td>
<td>613 G &amp; D transactions are generated and recorded in tab-delimited report.</td>
</tr>
<tr>
<td>613 G or D balance</td>
<td></td>
</tr>
<tr>
<td>Coverage is other than U, UA, UC or UAC.</td>
<td>Exception reported. No transactions generated</td>
</tr>
<tr>
<td>Coverage changing to other than U, UA, UC or UAC on or before 1/1.</td>
<td>Exception reported. No transactions generated</td>
</tr>
<tr>
<td>Coverage changing from UA to U on or before 1/1</td>
<td>$500 transactions generated</td>
</tr>
<tr>
<td>Coverage changing from U to UA on or before 1/1</td>
<td>$1000 transactions generated</td>
</tr>
<tr>
<td>Employee has existing 613 G or D balance not = 0, amounts &lt;&gt; both 500 or 1000</td>
<td>Warning message issued. Transactions are generated and reported on the tab-delimited report.</td>
</tr>
<tr>
<td>Employee has existing 613 G or D balance &gt; 0, amounts = both 500 or 1000</td>
<td>No transactions are generated</td>
</tr>
<tr>
<td>Separation date is before 1/1</td>
<td>No transactions are generated</td>
</tr>
<tr>
<td>Plan change to non-HSA on or before 1/1</td>
<td>No transactions are generated</td>
</tr>
</tbody>
</table>

After running PPP575, validate the transactions generated and the tab-delimited file. It may be useful to run the transactions through a batch EDB update process and review the results on the PPP180 report.