Service Request 83349
Remove Zero Gross Transfer Edit

Technical Specification

January 30, 2012
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# Version History

<table>
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<tr>
<th>Version #</th>
<th>Date</th>
<th>Revised By</th>
<th>Reason for Change</th>
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<td>1.0</td>
<td>01/30/2012</td>
<td>Baskar Chitravel</td>
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1 Introduction

PPS has implemented edits to cap and/or block the transfer of expense between the restricted funds, in order to comply the guidelines that have been established by various government agencies.

Release 1924 installed edits to block the zero gross transfers between restricted funds in the online and batch expense transfer modules.

This request is to allow the zero gross transfers between restricted funds by removing the edits that block them.

1.1.1 Service Request SR83349

In order to allow zero gross transfers to and from restricted funds, the edits that prevent the processing of zero gross expense transfers between the restricted funds should be removed.

2 Background

Various government agencies, including the National Institute of Health (NIH), have established guidelines that restrict charging payroll expenses at pay rates in excess of the Executive Level II of the Federal Executive Pay Scale.

Release 1647 implemented a front-end process to provide pay rate compliance within the EDB File Maintenance edit process. Most payments to individuals are based on these EDB normal pay attributes. Release 1669 implemented a process that examines the actual earnings during the process month and reports warning conditions that indicate possible non-compliance with the stipulated cap guidelines.

Release 1924 implemented a compliance process for online expense transfers that:
1. Blocks expense transfers that exceed the cap.
2. Blocks zero gross transfers to and from restricted funds.
3. Reports by-agreement expense transfers that do not exceed the cap.
4. Rejects by-agreement expense transfers that exceed the cap.

Modify the payroll system’s process to remove the Zero Gross Transfer Edit that was implemented by R1924 above.

3 Overview of System Modifications

Following are the PPS modifications to remove the zero gross expense transfer edits:

1. Remove the zero gross edit flag details present in the program linkage area.

2. Remove the logic that sets the zero gross edit flag and displays the error messages, if the gross amount is zero and any of the FROM/TO fund is SALARYCAP.

3. Create the CTL table transactions to remove the messages 35-078 and 36-434 from the System Messages table.
4 Design Considerations

4.1 Assumptions and Dependencies

- Remove one of the edits in the program PPETSCED (released in R1924) that blocks the expense transfer transactions, whenever the following conditions are satisfied:
  a) If the FROM and/or TO fund (FAU) exist in the PPPFND table with the group definition of SALARYCAP
  b) The Original Gross Earning amount in the TOE table for this transaction equals zero

- All the remaining edits added in R1924 for the Salary Cap restricted funds remain unchanged

- The zero gross edit messages 35-078 and 36-434 are removed from the program logic and message table

- The zero gross edit switch, available in the interface data of the calling programs and PPETSCED, is removed

5 Testing Considerations

Not enough TOE records are available with a combination of zero Original Gross earning and a FAU defined as SALARYCAP, which might require more time in setting up test cases for Unit Testing, QA, and UAT.

A thorough unit testing is needed to make sure that the remaining 3 edits work properly after removing the zero gross edit.

The following is the modification history for the R1924 components:

<table>
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<th>Program</th>
<th>Modified History</th>
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<tr>
<td>PPEXPTRN</td>
<td>R1940 – Added an edit related to 120 day time limit restricted funds</td>
</tr>
<tr>
<td>PPP360</td>
<td>R1965 - Restrict external earnings DOS codes to specific Post Doc Titles</td>
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Testing is needed to make sure that the later changes are not affected adversely by the removal of a part of the Salary Cap edits that were introduced in R1924.

Testing with the production environment is needed as well.
6 Mainframe Design

6.1 **Compute - ET edit changes**

6.1.1 Cobol Programs

6.1.1.1 PPETSCED

PPETSCED is the Salary Cap Edit program for the Expense Transfer transactions.

PROCEDURE DIVISION

Comment out the Zero Gross transfer edit that sets the linkage flag ETSC-ZEROGRS-CAPFUND whenever both of the following conditions are true:

- The input transaction amount is equal to zero
- If any of the input FROM or TO fund is defined in the SALARYCAP group

In the 2000-SALARY-CAP-EDIT paragraph, comment out the following code:

```cobol
IF ETSC-FROM-NOT-RESTRICTED AND ETSC-TO-NOT-RESTRICTED
   GO TO 2000-EXIT
ELSE
   IF ETSC-TRANS-AMT = ZERO
      SET ETSC-ZEROGRS-CAPFUND TO TRUE
      GO TO 2000-EXIT
   END-IF
END-IF
```

6.1.1.2 PPEXPTRN

Program PPEXPTRN handles all the edits associated with Expense Transfer transactions.
PROCEDURE DIVISION

Comment out the logic that moves the error code 78, if the error returned from the called routine PPETSCED is ETSC-ZEROGRS-CAPFUND.

In the CALL-PGM-PPETSCED-3800 paragraph, comment out the following code:

```asm
IF ETSC-ZEROGRS-CAPFUND
    SET PPEXPTRN-REQUEST-REJECTED TO TRUE
    MOVE '78' TO WRK-ERROR-CD
    IF PPEXPTRN-MASS-TRANSFER
        MOVE TOESC-ET-PAGE-LINE
        TO NUMERIC-DISP-ET-PG-ET-LN
        STRING 'ERROR AT PAGE ' NUMERIC-DISP-ET-PAGE
        ' LINE ' NUMERIC-DISP-ET-LINE
        DELIMITED BY SIZE INTO WORK-REFERENCE
    END-IF
    PERFORM STACK-ERROR-CODE-6900
END-IF
ELSE
    SET PPEXPTRN-REQUEST-REJECTED TO TRUE
    IF ETSC-FAILURE-CODE < 0

6.1.1.3 PPP360

Program PPP360 has the logic to edit all the Payroll Compute transactions prior to the placement on the Transaction Holding File (THF).

WORKING-STORAGE

Comment out the following zero gross edit message M36434 that was added in release 1924:

05 M36434 PIC 9(5) VALUE 36434.
PROCEDURE DIVISION

Comment out the logic that moves the error message code M36434, if the error returned from the called routine PPETSCED is ETSC-ZEROGRS-CAPFUND.

In the CALL-PGM-PPETSCED-2540 paragraph, comment out the following code:

```asa
IF ETSC-EXCEEDS-SALRYCAP
  MOVE M36432 TO MSG-DESIRED
  PERFORM ERROR-PRINT-7000
END-IF

IF ETSC-ZEROGRS-CAPFUND
  MOVE M36434 TO MSG-DESIRED
  PERFORM ERROR-PRINT-7000
END-IF

ELSE
  IF ETSC-FAILURE-CODE < 0
    MOVE M36940 TO MSG-DESIRED
```

6.1.2 Copy Members

6.1.2.1 CPLNETSC

Copybook CPLNETSC holds the interface data between the calling program and PPETSCED. The input details from the Expense Transfer transactions (TS or TM) and Transfer of Expense (TOE) table are populated in ETSC-INPUTS. Program return code and from/to fund restrictions details are returned in ETSC-OUTPUTS by the called program PPETSCED.

In the ETSC-OUTPUTS definition, comment out the following Zero gross edit flag definitions:

```asa
10 ETSC-BYA-WITH-SALRYCAP-SW PIC X.
   88 ETSC-BYA-WITH-SALRYCAP VALUE 'Y'.
   88 ETSC-NOT-BYA-WITH-SALRYCAP VALUE 'N'.
  10 ETSC-ZEROGRS-CAPFUND-SW PIC X.
     88 ETSC-ZEROGRS-CAPFUND VALUE 'Y'.
     88 ETSC-NOT-ZEROGRS-CAPFUND VALUE 'N'.
```
6.1.3 Control Table Updates

6.1.3.1 CTL Database

The CTL update transactions are included below in this document and these will be keyed by the programmer and applied to the CTL database by running program PPP004.

6.1.3.1.1 PPPMSG – System Messages Table

The following messages (description: ZERO GROSS TRANSFER NOT ALLOWED WITH CAPPED FUND SOURCE) will be deleted from the System Messages Table:

1. Message Number 35-078 (Severity 5 message - printed by PPP350)
2. Message Number 36-434 (Severity 5 message - printed by PPP360)

Create the following CTL transactions to delete the above PPPMSG table messages:

SYSTEM MESSAGES TABLE (08) TRANSACTIONS
1 1 2 2 3 3 4 4 5 5 6 6 7 7 8
1---5----0----5----0----5----0----5----0----5----0----5----0----5----0----5----0
D0835078
D0836434

7 Unit Testing Requirements

Unit testing will require the below steps (refer test plan of R1940 for test case setup help):

TOE Data:

1. Run Expense Distribution for a month to produce the Transfer of Expense (TOE) file
2. Load the TOE file into ETH database
3. From the PPPTOE table, get the following record details with TOE_ORIG_GROSS_ERN = 0:
   TOE_ET_MONTH
   TOE_ET_PAGE_LINE
   TOE_FAU’s 5 character Fund Number which starts at 12th position (e.g. 19900 in FAU “3404918 19900 1”)


Salary Cap Funds:

1. In the PPPFND table, get the following record details with FND_GROUPING_DEF = ‘SALARYCAP’ and FND_LOCATION = ‘3’:
   - FND_LOW_RANGE
   - FND_HIGH_RANGE
   - FND_GROUP_CODE
2. Check each 5 character account from TOE Data’s FAU against the range established between FND_LOW_RANGE and FND_HIGH_RANGE (inclusive).
3. All the matched TOE Data records are the candidates for the unit testing. Record the primary key details TOE_ET_MONTH and TOE_ET_PAGE_LINE from the TOE Data.

Batch Testing:

Description:

1. Setup the following batch transactions with FROM and/or TO fund from the above selected TOE Data records:
   - Single Transfer (TS - using UPAY form 773) Expense Transfer transactions
   - Mass Transfer (TM - UPAY form 774) Expense Transfer transactions
   - Expense Transfer E1, E2, and E3 transactions using UPAY646
2. Run any (B1, B2, or MO) of the compute edits inputting the above batch transactions

Verification:

1. PPP350 program will not reject the TS or TM batch transactions with the 35-078 error message
2. PPP360 program will not reject the E1/E2/E3 batch transactions with the 36-434 error message

CICS Testing:

Description:

1. Test the following CICS Expense Transfers with FROM and/or TO fund from the above selected TOE Data records:
   - Using EDTS screen, test the Single Transfer transactions
   - Using EDTM screen, test the Mass Transfer transactions
2. Press the Update Key to trigger the Expense Transfer edits provided by PPEXPTRN for the TS or TM transactions

Verification:

EDTS (Single Transfer) and EDTM (Mass Transfer) screens will not reject the CICS transactions with the 35-078 message.