

Service Request 80253

Addition of Foreign Address to UCRS File

Detail Design

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Introduction

Service request 80253 outlines the proposed change to address data sent to UCRS from payroll. The PPI740 interface files sent monthly from payroll to UCRS currently contains the following address data:

```
05 FM-HOME-ADDRESS.  
  10 FM-HOME-STREET-1      PIC X(30).  
  10 FM-HOME-STREET-2      PIC X(30).  
  10 FM-HOME-CITY          PIC X(21).  
  10 FM-HOME-STATE         PIC XX.  
  10 FM-PERM-ZIP.  
    15 FM-HOME-ZIP         PIC X(5).  
    15 FM-FILLER           PIC X(4).
```

The proposed change is to add the following foreign ADDRESS fields:

```
FOREIGN_ADDR_IND  CHAR(1)   (from PPPPAY)  
FAD_PROVINCE      CHAR(15)  (from PPPFAD)  
FAD_POSTAL_CODE   CHAR(10)  (from PPPFAD)  
COUNTRY NAME     CHAR(30)  (translation of FAD_COUNTRY)
```

PPI740 interface file fields should be populated according to the following rules:

Populate street1, street2 and city (no change to existing logic).

```
If FOREIGN_ADDR_IND = 'F'  
  MOVE SPACE TO STATE AND ZIP  
  Populate the foreign address fields  
ELSE  
  MOVE SPACE TO the foreign address fields  
  Populate STATE and ZIP.
```

In addition to the foreign address changes referenced above, UCRS is also requesting that Payroll add the 3 part name field carried on Payroll (first, last, and middle - each 30 characters) to the end of the PPI740 record. But leave the existing 26 character consolidated name field in place.

After these changes are in place a one-time inclusion of all foreign addresses in the PPI740 interface file should be coordinated between all of the interfacing payroll systems and UCRS.

Since National Laboratories do not use the base payroll system these changes must be requested and implementation coordinated separately.

Processing Overview

PPI740 program needs changes in the New and Old History file layouts and also changes in the FM file. There will be an increase of 56 bytes in the HOME-ADDRESS area of the file layout. The changes in this area are shown below:

HOME-ADDRESS .		
HOME-STREET-1	X(30).	
HOME-STREET-2	X(30).	
HOME-CITY	X(21).	
FOREIGN-ADDR-IND	X(1).	→ PPPPAY.FOREIGN_ADDR_IND
HOME-STATE	XX.	
PERM-ZIP .		
HOME-ZIP	X(5).	
FILLER	X(4).	
FAD-PROVINCE	X(15).	→ PPPFAD.FAD_PROVINCE
FAD-POSTAL-CODE	X(10).	→ PPPFAD.FAD_POSTAL_CODE
COUNTRY	X(30).	→ PPPFAD.FAD_COUNTRY's translation (PPPFCT)

FOREIGN-ADDR-IND field will have a value of

'F'	---	if the employee's address is a Foreign Address
Spaces	---	if the employee's address is a Domestic Address

In addition to the foreign address changes referenced above, we will also add the 3 part name field carried on Payroll (first, last, and middle - each 30 characters) to the end of the PPI740 record.

There will be an onetime program which reads the Old History file in the Old format and converts them into the New format. All the new fields values have been initialized to Spaces. This takes care of not sending all the records as change records and just the ones with the Foreign Address and also the new additions apart from the records send usually for other changes made between the 2 runs.

Program Changes for PPI740

PPI740 is a batch program which will take the old History file and check with the EDB whether there are any changes between the 2 runs.

If there is a matching record found then it looks for a change between the EDB and the old History record. If there are changes it writes the changed record into the output History File and also it writes the Output FM change file. If there is no change then it just writes only the output History record.

But if there is no matching record found and the EDB Employee ID is greater than the old history file's record, then the old history is dropped. Otherwise a new record will be created and written into new history file and into the FM change file.

FILE Definitions and Layout Changes

Following are the FD and Layout changes needed in the program PPI740 to add the foreign address data.

Changes for UCRSFM File

```
FD  OUT03
    RECORDING MODE IS F
    LABEL RECORDS ARE STANDARD
    BLOCK CONTAINS 00 CHARACTERS
    DATA RECORD IS OB-FM-RECORD.
01  OB-FM-RECORD PIC X(290).
01  OB-FM-RECORD    PIC X(436).
```

PAYROLL-FM-CONTROL-RECORD is the layout of the first control record of the UCRSFM file. Increase the filler in the end from 258 to 404.

```
01  PAYROLL-FM-CONTROL-RECORD.
    05  FM-CTL-RECORD-CODE          PIC 9          VALUE 9.
    05  FM-CTL-FILLER                PIC 9(9)        VALUE ZERO.
    05  FM-CTL-LOCATION                PIC 99.
    05  FM-CTL-CYCLE-DATE.
        10  FM-CTL-YEAR              PIC 99.
        10  FM-CTL-MONTH             PIC 99.
    05  FM-CTL-FILLER2                PIC 9(4)        VALUE ZERO.
    05  FM-CTL-ADD-COUNT              PIC S9(6)       VALUE ZERO.
    05  FM-CTL-CHANGE-COUNT          PIC S9(6)       VALUE ZERO.
05  FM-CTL-FILLER3                PIC X(258)       VALUE SPACES.
    05  FM-CTL-FILLER3                PIC X(404)       VALUE SPACES.
```

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PAYROLL-FM-RECORD is the record layout for the UCRSFM file. The changes are shown below:

```
01  PAYROLL-FM-RECORD .
    05  FM-RECORD-CODE          PIC X      VALUE '2' .
    05  FM-SOCIAL               PIC 9(9) .
    05  FILLER                   REDEFINES FM-SOCIAL .
        10  FM-SOCIAL-1-1-X1     PIC X(01) .
        10  FILLER               PIC X(08) .
    05  FM-LOCATION              PIC 99 .
    05  FM-TRANS-DATE           PIC 9(6) .
    05  FM-TRANS-TYPE           PIC 99 .
    05  FM-CURRENT-MEMBER-NAME .
        10  FM-NAME              PIC X(26) .
        10  FM-MEMBER-SUFFIX     PIC X(4) .
    05  FM-CURRENT-EMPLOYEE-NO  PIC 9(9) .
    05  FM-RETIREMENT-CODE      PIC X .
    05  FM-BIRTH-DATE           PIC 9(6) .
    05  FM-SEX                  PIC X .
    05  FM-HIRE-DATE            PIC 9(6) .
    05  FM-UCRS-ENTRY-DATE      PIC 9(6) .
    05  FM-HOME-ADDRESS .
        10  FM-HOME-STREET-1     PIC X(30) .
        10  FM-HOME-STREET-2     PIC X(30) .
        10  FM-HOME-CITY         PIC X(21) .
        10  FM-FAD-ADDR-IND      PIC X(1) .
                                → PPPPAY.FOREIGN_ADDR_IND
        10  FM-HOME-STATE        PIC XX .
        10  FM-PERM-ZIP .
            15  FM-HOME-ZIP       PIC X(5) .
            15  FM-FILLER        PIC X(4) .
        10  FM-FAD-PROVINCE     PIC X(15) .
                                → PPPFAD.FAD_PROVINCE
        10  FM-FAD-POSTAL-CODE PIC X(10) .
                                → PPPFAD.FAD_POSTAL_CODE
        10  FM-FAD-COUNTRY    PIC X(30) .
                                → PPPFAD.FAD_COUNTRY's translation
    05  FM-LOA-START-DATE       PIC 9(6) .
    05  FM-LOA-END-DATE         PIC 9(6) .
    05  FM-SEPARATION-DATE      PIC 9(6) .
    05  FM-OLD-SOCIAL           PIC 9(9) .
    05  FM-OLD-NAME             PIC X(26) .
    05  FM-OLD-SUFFIX           PIC X(4) .
    05  FM-EMP-REL-CODE          PIC X(1) .
    05  FM-EMP-UNIT-CODE        PIC X(2) .
    05  FM-EMP-SPCL-HNDLG-CODE  PIC X(1) .
    05  FM-EMP-DIST-UNIT-CODE   PIC X(1) .
    05  FM-EMP-COVERAGE-IND     PIC X(1) .
    05  FM-TRIP-FILLER          PIC X(10) .
    05  FM-COV-COMP-LIMIT-CD    PIC X(01) .
    05  FM-STUDENT-STATUS-CODE  PIC X(01) .
    05  FM-REGISTERED-UNITS-X   PIC X(03) .
    05  FM-REGISTERED-UNITS REDEFINES FM-REGISTERED-UNITS-X PIC 99V9 .
    05  FM-MAC-403B-CHANGE-DATE-X PIC X(06) .
    05  FM-MAC-403B-CHANGE-DATE REDEFINES
        FM-MAC-403B-CHANGE-DATE-X PIC 9(06) .
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```
05 FM-PLN-403B-ANNUAL-LIMIT-X PIC X(07).
05 FM-PLN-403B-ANNUAL-LIMIT REDEFINES
   FM-PLN-403B-ANNUAL-LIMIT-X PIC S9(05)V99.
05 FM-SEPARATE-REASON PIC X(02).
05 FM-FIRST-NAME PIC X(30). → PPPPER.FIRST_NAME
05 FM-MIDDLE-NAME PIC X(30). → PPPPER.MIDDLE_NAME
05 FM-LAST-NAME PIC X(30). → PPPPER.LAST_NAME
05 FILLER PIC X(26).
```

Changes for HISTOLD File

```
FD IA-HIST-FILE
   RECORDING MODE IS F
   LABEL RECORDS ARE STANDARD
   BLOCK CONTAINS 00 CHARACTERS
   DATA RECORD IS IA-HISTORY-RECORD.
01 IA-HISTORY-RECORD PIC X(299).
01 IA-HISTORY-RECORD PIC X(445).
```

WI-HIST-CTL-REC is the layout of the first control record of the HISTOLD file.
Increase the filler in the end from 283 to 339.

```
01 WI-HIST-CTL-REC.
   05 WI-HIST-CTL-ID PIC X(10).
   05 WI-HIST-CTL-DATE PIC 9(6).
05 WI-HIST-CTL-FILLER PIC X(283).
   05 WI-HIST-CTL-FILLER PIC X(429).
```

WI-HIST-RECORD is the record layout for the HISTOLD file. The changes are shown below:

```
01 WI-HIST-RECORD.
   05 WI-HIST-KEY PIC 9(9).
   05 WI-HIST-RECORD-CODE PIC X VALUE '2'.
   05 WI-HIST-SOCIAL PIC 9(9).
   05 WI-HIST-LOCATION PIC 99.
   05 WI-HIST-TRANS-DATE PIC 9(6).
   05 WI-HIST-TRANS-TYPE PIC 99.
   05 WI-HIST-CURRENT-MEMBER-NAME.
      10 WI-HIST-NAME PIC X(26).
      10 WI-HIST-MEMBER-SUFFIX PIC X(4).
   05 WI-HIST-CURRENT-EMPLOYEE-NO PIC 9(9).
   05 WI-HIST-RETIREMENT-CODE PIC X.
   05 WI-HIST-BIRTH-DATE PIC 9(6).
   05 WI-HIST-SEX PIC X.
   05 WI-HIST-HIRE-DATE PIC 9(6).
   05 WI-HIST-UCRS-ENTRY-DATE PIC 9(6).
   05 WI-HIST-HOME-ADDRESS.
      10 WI-HIST-HOME-STREET-1 PIC X(30).
      10 WI-HIST-HOME-STREET-2 PIC X(30).
      10 WI-HIST-HOME-CITY PIC X(21).
      10 WI-HIST-FAD-ADDR-IND PIC X(1).
         → PPPPAY.FOREIGN_ADDR_IND
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10	WI-HIST-HOME-STATE	PIC XX.	
10	WI-HIST-HOME-ZIP	PIC X(5).	
10	WI-HIST-FILLER	PIC X(4).	
10	WI-HIST-FAD-PROVINCE	PIC X(15).	→ PPPFAD.FAD_PROVINCE
10	WI-HIST-FAD-POSTAL-CODE	PIC X(10).	→ PPPFAD.FAD_POSTAL_CODE
10	WI-HIST-FAD-COUNTRY	PIC X(30).	→ PPPFAD.FAD_COUNTRY's translation
05	WI-HIST-LOA-START-DATE	PIC 9(6).	
05	WI-HIST-LOA-END-DATE	PIC 9(6).	
05	WI-HIST-SEPARATION-DATE	PIC 9(6).	
05	WI-HIST-OLD-SOCIAL	PIC 9(9).	
05	WI-HIST-OLD-NAME	PIC X(26).	
05	WI-HIST-OLD-SUFFIX	PIC X(4).	
05	WI-HIST-EMP-REL-CODE	PIC X(1).	
05	WI-HIST-EMP-UNIT-CODE	PIC X(2).	
05	WI-HIST-EMP-SPCL-HNDLG-CODE	PIC X(1).	
05	WI-HIST-EMP-DIST-UNIT-CODE	PIC X(1).	
05	WI-HIST-EMP-COVERAGE-IND	PIC X(1).	
05	FILLER	PIC X(10).	
05	WI-HIST-COV-COMP-LIMIT-CD	PIC X(01).	
05	WI-HIST-STUDENT-STATUS	PIC X(01).	
05	WI-HIST-REGISTERED-UNITS	PIC 9(02)V9.	
05	WI-HIST-MAC-403B-CHANGE-DATE	PIC 9(06).	
05	WI-HIST-PLN-403B-ANNUAL-LIMIT	PIC S9(05)V99.	
05	WI-SEPARATE-REASON	PIC X(02).	
05	WI-HIST-FIRST-NAME	PIC X(30).	→ PPPPER.FIRST_NAME
05	WI-HIST-MIDDLE-NAME	PIC X(30).	→ PPPPER.MIDDLE_NAME
05	WI-HIST-LAST-NAME	PIC X(30).	→ PPPPER.LAST_NAME
05	FILLER	PIC X(26).	

Changes for HISTNEW File

FD OUT02
RECORDING MODE IS F
LABEL RECORDS ARE STANDARD
BLOCK CONTAINS 00 CHARACTERS
DATA RECORD IS OA-HIST-RECORD.
~~01 OA-HIST-RECORD PIC X(299).~~
01 OA-HIST-RECORD PIC X(445).

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Changes for WO-HISTORY-RECORD (layout of HISTNEW file) are shown below:

```
01 WO-HISTORY-RECORD.
03 WO-HIST-KEY PIC 9(9).
03 WO-HIST-RECORD.
05 WO-HIST-RECORD-CODE PIC X VALUE '2'.
05 WO-HIST-SOCIAL PIC 9(9).
05 WO-HIST-LOCATION PIC 99.
05 WO-HIST-TRANS-DATE PIC 9(6).
05 WO-HIST-TRANS-TYPE PIC 99.
88 WO-HIST-CHANGE-TRANSACTION VALUE 11.
05 WO-HIST-CURRENT-MEMBER-NAME.
10 WO-HIST-NAME PIC X(26).
10 WO-HIST-MEMBER-SUFFIX PIC X(4).
05 WO-HIST-CURRENT-EMPLOYEE-NO PIC 9(9).
05 WO-HIST-RETIREMENT-CODE PIC X.
05 WO-HIST-BIRTH-DATE PIC 9(6).
05 WO-HIST-SEX PIC X.
05 WO-HIST-HIRE-DATE PIC 9(6).
05 WO-HIST-UCRS-ENTRY-DATE PIC 9(6).
05 WO-HIST-HOME-ADDRESS.
10 WO-HIST-HOME-STREET-1 PIC X(30).
10 WO-HIST-HOME-STREET-2 PIC X(30).
10 WO-HIST-HOME-CITY PIC X(21).
10 WO-HIST-FAD-ADDR-IND PIC X(1).
→ PPPPAY.FOREIGN_ADDR_IND
10 WO-HIST-HOME-STATE PIC XX.
10 WO-HIST-HOME-ZIP PIC X(5).
10 WO-HIST-FILLER PIC X(4).
10 WO-HIST-FAD-PROVINCE PIC X(15).
→ PPPFAD.FAD_PROVINCE
10 WO-HIST-FAD-POSTAL-CODE PIC X(10).
→ PPPFAD.FAD_POSTAL_CODE
10 WO-HIST-FAD-COUNTRY PIC X(30).
→ PPPFAD.FAD_COUNTRY's translation
05 WO-HIST-LOA-START-DATE PIC 9(6).
05 WO-HIST-LOA-END-DATE PIC 9(6).
05 WO-HIST-SEPARATION-DATE PIC 9(6).
05 WO-HIST-OLD-SOCIAL PIC 9(9).
05 WO-HIST-OLD-NAME PIC X(26).
05 WO-HIST-OLD-SUFFIX PIC X(4).
05 WO-HIST-EMP-REL-CODE PIC X(1).
05 WO-HIST-EMP-UNIT-CODE PIC X(2).
05 WO-HIST-EMP-SPCL-HNDLG-CODE PIC X(1).
05 WO-HIST-EMP-DIST-UNIT-CODE PIC X(1).
05 WO-HIST-EMP-COVERAGE-IND PIC X(1).
05 WO-TRIP-FILLER PIC X(10).
05 WO-HIST-COV-COMP-LIMIT-CD PIC X(01).
05 WO-HIST-STUDENT-STATUS PIC X(01).
05 WO-HIST-REGISTERED-UNITS PIC 9(02)V9.
05 WO-HIST-MAC-403B-CHANGE-DATE PIC 9(06).
05 WO-HIST-PLN-403B-ANNUAL-LIMIT PIC S9(05)V99.
05 WO-HIST-SEPARATE-REASON PIC X(02).
05 WO-HIST-FIRST-NAME PIC X(30). → PPPPER.FIRST_NAME
05 WO-HIST-MIDDLE-NAME PIC X(30). → PPPPER.MIDDLE_NAME
05 WO-HIST-LAST-NAME PIC X(30). → PPPPER.LAST_NAME
05 FILLER PIC X(26).
```

Changes in the WORKING-STORAGE SECTION

WM-ADDRESS is used as a placeholder for EDB Home Address when we compare HISTOLD record's Home Address with the EDB's Home Address.

```
05 WM-ADDRESS .
   10 WM-ADDR-1          PIC X(30) .
   10 WM-ADDR-2          PIC X(30) .
   10 WM-ADDR-3          PIC X(21) .
   10 WM-ADDR-FAD-ADDR-IND PIC X(1) .
   10 WM-ADDR-4          PIC X(2) .
   10 WM-ADDR-5          PIC X(9) .
   10 WM-ADDR-FAD-PROVINCE PIC X(15) .
   10 WM-ADDR-FAD-POSTAL-CODE PIC X(10) .
   10 WM-ADDR-FAD-COUNTRY PIC X(30) .
```

Changes in the PROCEDURE DIVISION

In the **02315-FORM-NEW-RECORD** paragraph, we need to populate the Foreign Address details for the new HISTNEW record as well as for the FM record. The changes required are as follows:

```
MOVE ADDRESS-LINE1 TO FM-HOME-STREET-1 .
MOVE ADDRESS-LINE2 TO FM-HOME-STREET-2 .
MOVE ADDRESS-CITY TO FM-HOME-CITY .

MOVE FOREIGN-ADDR-IND TO FM-FAD-ADDR-IND
IF FM-FAD-ADDR-IND = 'F'
  MOVE SPACES TO FM-HOME-STATE
  FM-PERM-ZIP
  MOVE FAD-PROVINCE TO FM-FAD-PROVINCE
  MOVE FAD-POSTAL-CODE TO FM-FAD-POSTAL-CODE
  MOVE FCT-COUNTRY-NAME TO FM-FAD-COUNTRY
ELSE
  MOVE ADDRESS-STATE TO FM-HOME-STATE
  MOVE ADDRESS-ZIP TO FM-PERM-ZIP
  MOVE SPACES TO FM-FAD-PROVINCE
  FM-FAD-POSTAL-CODE
  FM-FAD-COUNTRY

END-IF .
MOVE ADDRESS-STATE TO FM-HOME-STATE .
MOVE ADDRESS-ZIP
TO FM-PERM-ZIP .
```

```
*
MOVE EMP-REL-CODE TO FM-EMP-REL-CODE .
MOVE COV-COMP-LIMIT-CD TO FM-COV-COMP-LIMIT-CD .
MOVE EMP-REL-UNIT TO FM-EMP-UNIT-CODE .
```

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Also for the population of new **Name** fields, the code is added here.

```
MOVE SEPARATE-DATE TO XDC3-ISO-DATE.
PERFORM XDC3-CONVERT-ISO-TO-STD.
MOVE XDC3-STD-DATE TO FM-SEPARATION-DATE.
*
MOVE SEPARATE-REASON TO FM-SEPARATE-REASON.
*
MOVE FIRST-NAME          TO FM-FIRST-NAME
MOVE MIDDLE-NAME         TO FM-MIDDLE-NAME
MOVE LAST-NAME           TO FM-LAST-NAME
*
*****MOVE TRIP-PERCENT TO FM-TRIP-PERCENT.
*****MOVE TRIP-DURATION TO FM-TRIP-DURATION.
```

In the **02400-TEST-FOR-UCRS-CHANGES** section, we need to check whether the Home Address is changed between the HISTOLD record and the EDB record. So populate Home Address from the EDB with the temp WM-ADDRESS which now has the Foreign Address details and compare it with the HISTOLD Home Address. If there is a change then move WM-ADDRESS which has Foreign Address details to the new HISTNEW record as well as the FM record. The changes required are as follows:

```
*
MOVE ADDRESS-LINE1 TO WM-ADDR-1.
MOVE ADDRESS-LINE2 TO WM-ADDR-2.
MOVE ADDRESS-CITY TO WM-ADDR-3.
MOVE FOREIGN-ADDR-IND TO WM-ADDR-FAD-ADDR-IND
IF WM-ADDR-FAD-ADDR-IND = 'F'
    MOVE SPACES TO WM-ADDR-4
    WM-ADDR-5
    MOVE FAD-PROVINCE TO WM-ADDR-FAD-PROVINCE
    MOVE FAD-POSTAL-CODE TO WM-ADDR-FAD-POSTAL-CODE
    MOVE FCT-COUNTRY-NAME TO WM-ADDR-FAD-COUNTRY
ELSE
    MOVE ADDRESS-STATE TO WM-ADDR-4
    MOVE ADDRESS-ZIP TO WM-ADDR-5
    MOVE SPACES TO WM-ADDR-FAD-PROVINCE
    WM-ADDR-FAD-POSTAL-CODE
    WM-ADDR-FAD-COUNTRY
END-IF.
MOVE ADDRESS-STATE TO WM-ADDR-4.
MOVE ADDRESS-ZIP
TO WM-ADDR-5.
*
IF SEXCODE NOT = WI-HIST-SEX
    MOVE SEXCODE TO WO-HIST-SEX
    FM-SEX
    MOVE WC-AN-11 TO WO-HIST-TRANS-TYPE.
*
```

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Also for the population of new **Name** fields, the code is added here.

```
*
IF SEPARATE-REASON
    MOVE SEPARATE-REASON
        NOT =    WI-SEPARATE-REASON
        TO      FM-SEPARATE-REASON
        TO      WO-HIST-SEPARATE-REASON
    MOVE WC-AN-11
        TO      WO-HIST-TRANS-TYPE
END-IF.
*
IF FIRST-NAME NOT = WI-HIST-FIRST-NAME
    MOVE FIRST-NAME
        TO      FM-FIRST-NAME
        TO      WO-HIST-FIRST-NAME
    MOVE WC-AN-11
        TO      WO-HIST-TRANS-TYPE
END-IF.
*
IF MIDDLE-NAME NOT = WI-HIST-MIDDLE-NAME
    MOVE MIDDLE-NAME
        TO      FM-MIDDLE-NAME
        TO      WO-HIST-MIDDLE-NAME
    MOVE WC-AN-11
        TO      WO-HIST-TRANS-TYPE
END-IF.
*
IF LAST-NAME NOT = WI-HIST-LAST-NAME
    MOVE LAST-NAME
        TO      FM-LAST-NAME
        TO      WO-HIST-LAST-NAME
    MOVE WC-AN-11
        TO      WO-HIST-TRANS-TYPE
END-IF.
*
IF EMP-REL-CODE
    MOVE EMP-REL-CODE
        NOT =    WI-HIST-EMP-REL-CODE
        TO      FM-EMP-REL-CODE
        TO      WO-HIST-EMP-REL-CODE
    MOVE WC-AN-11
        TO      WO-HIST-TRANS-TYPE.
*
```

In the **07000-SQL-FETCH-PER** section, we need to

1. Add to the existing select for selecting FIRST-NAME, MIDDLE-NAME and LAST-NAME from PPPPER table.
2. Add to the existing select for selecting FOREIGN-ADDR-IND from PPPPAY table.
3. FOREIGN-ADDR-IND needs to be initialized to spaces if it has a value other than 'F'.
4. Also add a select SQL to select the fields FAD-PROVINCE, FAD-POSTAL-CODE and FAD-COUNTRY from PPPFAD DB2 table if the FOREIGN-ADDR-IND is 'F'. Then get the translation FCT-COUNTRY-NAME for FAD-COUNTRY from PPPFCT table.

```
07000-SQL-FETCH-PER SECTION.
INITIALIZE BEN-ROW-DATA.
INITIALIZE PAY-ROW-DATA.
INITIALIZE PCM-ROW-DATA.
MOVE 'FETCH PER ROW' TO DB2MSG-TAG.
EXEC SQL
    FETCH PER_ROW INTO :PER-ROW-DATA.EMPLOYEE-ID,
        :BIRTH-DATE, :EMP-DIST-UNIT-CODE,
        :EMP-NAME, :EMP-REL-CODE, :EMP-REL-UNIT,
        :EMP-REP-CODE, :EMP-SPEC-HAND, :HIRE-DATE,
        :LOA-BEGIN-DATE, :LOA-RETURN-DATE, :NAMESUFFIX,
        :SEPARATE-DATE, :SEXCODE
***--
***--
        :SEPARATE-DATE, :SEXCODE,
        :TRIP-PERCENT, :TRIP-DURATION, :TRIP-BEGIN-DATE
        , :STUDENT-STATUS, :REGISTERD-UNITS
        , :FIRST-NAME, :MIDDLE-NAME, :LAST-NAME
        , :SEPARATE-REASON
END-EXEC.

MOVE 'SELECT PAY ROW' TO DB2MSG-TAG.
EXEC SQL
    SELECT ADDRESS_LINE1, ADDRESS_LINE2, ADDRESS_CITY,
        ADDRESS_STATE, ADDRESS_ZIP, SOC_SEC_NUM,
        FICA_ELIG_CODE, FOREIGN_ADDR_IND
        FICA_ELIG_CODE
    INTO :ADDRESS-LINE1, :ADDRESS-LINE2, :ADDRESS-CITY,
        :ADDRESS-STATE, :ADDRESS-ZIP, :SOC-SEC-NUM,
        :FICA-ELIG-CODE, :FOREIGN-ADDR-IND
        :FICA-ELIG-CODE
    FROM PPPVPAY1_PAY
    WHERE EMPLOYEE_ID = :WS-EMPLOYEE-ID
END-EXEC
IF SQLCODE = +100
    INITIALIZE PAY-ROW-DATA
    MOVE ZERO TO SOC-SEC-NUM
END-IF.
MOVE FICA-ELIG-CODE TO WS-FICA-ELIG-CODE.
```

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```
IF FOREIGN-ADDR-IND = 'F'
  INITIALIZE FAD-ROW-DATA
  MOVE 'SELECT FAD ROW' TO DB2MSG-TAG
  EXEC SQL
    SELECT  FAD_COUNTRY,  FAD_PROVINCE,  FAD_POSTAL_CODE
      INTO  :FAD-COUNTRY,  :FAD-PROVINCE,  :FAD-POSTAL-CODE
    FROM  PPPVZFAD_FAD
    WHERE EMPLOYEE_ID = :WS-EMPLOYEE-ID
  END-EXEC
  IF SQLCODE = +100
    INITIALIZE FAD-ROW-DATA
    FCT-ROW-DATA
  ELSE
    INITIALIZE FCT-ROW-DATA
    MOVE 'SELECT FCT ROW' TO DB2MSG-TAG
    EXEC SQL
      SELECT  FCT_COUNTRY_NAME
        INTO  :FCT-COUNTRY-NAME
      FROM  PPPVZFCT_FCT
      WHERE FCT_COUNTRY_CODE = :FAD-COUNTRY
    END-EXEC
    IF SQLCODE = +100
      INITIALIZE FCT-ROW-DATA
    END-IF
  END-IF
ELSE
  MOVE SPACES      TO FOREIGN-ADDR-IND
END-IF

MOVE 'SELECT PCM ROW' TO DB2MSG-TAG.
EXEC SQL
  SELECT MIN_RCD_FLAG INTO :MIN-RCD-FLAG
    FROM PPPVPCM1_PCM
    WHERE EMPLOYEE_ID = :WS-EMPLOYEE-ID
END-EXEC
MOVE MIN-RCD-FLAG TO WS-MIN-RCD-FLAG.
```

Copylib Members

No copylib members are changed or added in this project.

Include Members

The include member PPPVZFAD is added for accessing PPPFAD table. Also FAD-ROW-DATA is added to include the declaration of PPPVZFAD which is the view of PPPFAD table.

The include member PPPVZFCT is added for accessing PPPFCT table. Also FCT-ROW-DATA is added to include the declaration of PPPVZFCT which is the view of PPPFCT table.

```
*****
*           SQL - WORKING STORAGE           *
*****
01  PER-ROW-DATA.
    EXEC SQL
        INCLUDE PPPVPER1
    END-EXEC.
01  FAD-ROW-DATA.
    EXEC SQL
        INCLUDE PPPVZFAD
    END-EXEC.
01  FCT-ROW-DATA.
    EXEC SQL
        INCLUDE PPPVZFCT
    END-EXEC.
01  APP-ROW-DATA.
    EXEC SQL
        INCLUDE PPPVAPP1
    END-EXEC.
```

Cursor Declaration

In the PER_ROW cursor declaration, add for selecting FIRST-NAME, MIDDLE-NAME and LAST-NAME from PPPPER table.

```
EXEC SQL
    DECLARE PER_ROW CURSOR FOR
        SELECT EMPLOYEE_ID, BIRTH_DATE,
            EMP_DIST_UNIT_CODE, EMP_NAME, EMP_REL_CODE,
            EMP_REL_UNIT, EMP_REP_CODE, EMP_SPEC_HAND,
            HIRE_DATE, LOA_BEGIN_DATE, LOA_RETURN_DATE,
            NAMESUFFIX, SEPARATE_DATE, SEXCODE
***--
        , TRIP_PERCENT, TRIP_DURATION, TRIP_BEGIN_DATE
        , STUDENT_STATUS, REGISTERD_UNITS
        , FIRST_NAME, MIDDLE_NAME, LAST_NAME
        , SEPARATE_REASON
    FROM PPPVPER1_PER
    ORDER BY EMPLOYEE_ID
END-EXEC.
```

Control Table Updates

No new messages added by this release

JCL

The existing JCL to execute PPI740 needs few changes because of the Input and Output record length increases.

The changes needed are shown in the following sample JCL:

```
//*****  
//SCR740 EXEC PGM=IEFBR14,COND=(4,LT) SCRATCH FILES  
//DELETE01 DD DSN=PAYBCC.TEST.HIST740,  
// DISP=(MOD,DELETE),UNIT=3380,SPACE=(TRK,0)  
//DELETE02 DD DSN=PAYBCC.TEST.UCRSFM,  
// DISP=(MOD,DELETE),UNIT=3380,SPACE=(TRK,0)  
//*****  
//PPI740 EXEC PGM=PPI740,COND=(4,LT),TIME=1  
//SYSTSIN DD *  
 PLAN(BCCI740)  
 SYSTEM(DB2D)  
 MSGDD(NONE)  
//HISTOLD DD DSN=PAYBCC.TEST.HISTOLD,DISP=SHR  
//HISTNEW DD DSN=PAYBCC.TEST.HIST740,  
// DISP=(NEW,CATLG,DELETE),  
// UNIT=SYSDA,  
// SPACE=(TRK,(2,1),RLSE),  
// DCB=(RECFM=FB,LRECL=299)  
// DCB=(RECFM=FB,LRECL=445)  
//UCRSFM DD DSN=PAYBCC.TEST.UCRSFM,  
// DISP=(NEW,CATLG,DELETE),  
// UNIT=SYSDA,  
// SPACE=(TRK,(2,1),RLSE),  
// DCB=(RECFM=FB,LRECL=290)  
// DCB=(RECFM=FB,LRECL=436)  
//SYSOUX DD SYSOUT=*  
//SYSUDUMP DD SYSOUT=*  
//SYSOUT DD SYSOUT=*  
//SYSDBOUT DD SYSOUT=*  
//SYSABOUT DD SYSOUT=*  
//SYSDTERM DD SYSOUT=*  
//PRNTFIL DD SYSOUT=*  
//PRNTERR DD SYSOUT=*  
//CARDFIL DD *  
PPI74003123102113102  
//*
```

Attachments

Attachments A UCRS History File Record Layout

UCRS History File Record Layout (includes changes from service request 80253)			
Positions	Field Length/ Format	Field Description	Comments
1 – 9	9	History Key	Employee ID
10	1	Record Code	Value '2'
11 – 19	9	Social Security Number	EDB0111
20 – 21	2	Location	A unique code assigned to each campus, lab, Hastings, and ASUCLA
22 – 27	6 mmddy	Transaction Date	Run Date
28 – 29	2	Transaction Type	Value '11'
30 – 55	26	Employee Name	EDB0105
56 – 59	4	Employee Name Suffix	EDB0106
60 – 68	9	Employee ID	
69	1	Retirement System Code	EDB0122
70 – 75	6 mmddy	Employee Birth Date	EDB0107
76	1	Employee Sex Code	EDB0108
77 – 82	6 mmddy	Most Recent Hire Date	EDB0113
83 – 88	6 mmddy	UCRS Eligibility Date	EDB0163
89 – 118	30	Address Permanent Line One	EDB0204
119 – 148	30	Address Permanent Line Two	EDB0205
149 – 169	21	Address Permanent City	EDB0206
170	1	Foreign Address Indicator	EDB0291 ¹

¹ New data elements added in service request 80253.

*All fields starting with field position 170 and continuing to the end have been moved to accommodate the new data elements specified in service request 80253.

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UCRS History File Record Layout (includes changes from service request 80253)			
Positions	Field Length/ Format	Field Description	Comments
171 – 172	2	Address Permanent State	EDB0207
173 – 177	5	Address Permanent ZIP	EDB0208
178 – 181	4	Filler	
182 – 196	15	Foreign Address – Province	EDB1120 ¹
197 – 206	10	Foreign Address – Postal Code	EDB1119 ¹
207 – 236	30	Foreign Address – Country	EDB1118 ¹
237 – 242	6 mmddy	Leave of Absence Begin Date	EDB0137
243 – 248	6 mmddy	Leave of Absence Return Date	EDB0138
249 – 254	6 mmddy	Separation Date	EDB0140
255 – 263	9	Previous SSN	
264 – 289	26	Previous Name	
290 – 293	4	Previous Suffix	
294	1	Employee Relations Code	EDB0160
295 – 296	2	Employee Unit Code	EDB0255
297	1	Employee Special Handling Code	EDB0256
298	1	Employee Distribution Unit Code	EDB0257
299	1	Employee Representation Code	EDB0295
300 – 309	10	Filler	
310	1	UCRP Covered Compensation Limit Code	EDB0236
311	1	UC Student Status Code	EDB0119
312 – 314	3 99V9	Number of Registered UC Student Units	EDB0237
315 – 320	6 mmddy	403(b) Plan Total Contribution Amount	EDB0279
321 – 327	7 S9(5)99	403(b) Maximum Annual Contribution Amount (MAC)	EDB6008U

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UCRS History File Record Layout (includes changes from service request 80253)			
Positions	Field Length/ Format	Field Description	Comments
328 – 329	2	Separation Reason Code	EDB0141
330 – 359	30	Employee First Name	EDB0250 ²
360 – 389	30	Employee Middle Name	EDB0251 ¹
390 – 419	30	Employee Last Name	EDB0252 ¹
420 – 445	26	Filler	

² New data elements added in service request 80253.

*All fields starting with field position 170 and continuing to the end have been moved to accommodate the new data elements specified in service request 80253.

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Attachments B UCRS File Maintenance Record Layout

UCRS File Maintenance Record Layout			
(includes changes from service request 80253)			
Positions	Field Length/ Format	Field Description	Comments
1	1	Record Code	Value '2'
2 – 10	9	Social Security Number	EDB0111
11 – 12	2	Location	A unique code assigned to each campus, lab, Hastings, and ASUCLA
13 – 18	6 mmddy	Transaction Date	Run Date
19 – 20	2	Transaction Type	Value '10'
21 – 46	26	Employee Name	EDB0105
47 – 50	4	Employee Name Suffix	EDB0106
51 - 59	9	Employee ID	
60	1	Retirement System Code	EDB0122
61 – 66	6 mmddy	Employee Birth Date	EDB0107
67	1	Employee Sex Code	EDB0108
68 – 73	6 mmddy	Most Recent Hire Date	EDB0113
74 – 79	6 mmddy	UCRS Eligibility Date	EDB0163
80 – 109	30	Address Permanent Line One	EDB0204
110 – 139	30	Address Permanent Line Two	EDB0205
140 – 160	21	Address Permanent City	EDB0206
161	1	Foreign Address Indicator	EDB0291 ³
162 – 163	2	Address Permanent State	EDB0207
164 – 168	5	Address Permanent ZIP	EDB0208
169 – 172	4	Filler	Value is spaces

³ New data elements added in service request 80253.

*All fields starting with field position 161 and continuing to the end have been moved to accommodate the new data elements specified in service request 80253.

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UCRS File Maintenance Record Layout (includes changes from service request 80253)			
Positions	Field Length/ Format	Field Description	Comments
173 – 187	10	Foreign Address – Province	EDB1120 ¹
188 – 197	10	Foreign Address – Postal Code	EDB1119 ¹
198 – 227	30	Foreign Address – Country	EDB1118 ¹
228 – 233	6 mmddy	Leave of Absence Begin Date	EDB0137
234 – 239	6 mmddy	Leave of Absence Return Date	EDB0138
240 – 245	6 mmddy	Separation Date	EDB0140
246 – 254	9	Previous SSN	
255 – 280	26	Previous Name	EDB0313
281 – 284	4	Previous Suffix	
285	1	Employee Relations Code	EDB0160
286 – 287	2	Employee Unit Code	EDB0255
288	1	Employee Special Handling Code	EDB0256
289	1	Employee Distribution Unit Code	EDB0257
290	1	Employee Representation Code	EDB0295
291 – 300	10	Filler	Value is spaces
301	1	UCRP Covered Compensation Limit Code	EDB0236
302	1	UC Student Status Code	EDB0119
303 – 305	3 99V9	Number of Registered UC Student Units	EDB0237
306 – 311	6 mmddy	403(b) Plan Total Contribution Change Date	EDB0279
312 – 318	7 S9(5)99	403(b) Maximum Annual Contribution Amount	EDB6008U
319 – 320	2	Separation Reason Code	EDB0141
321 – 350	30	Employee First Name	EDB0250 ⁴

⁴ New data elements added in service request 80253.

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UCRS File Maintenance Record Layout			
(includes changes from service request 80253)			
Positions	Field Length/ Format	Field Description	Comments
351 – 380	30	Employee Middle Name	EDB0251 ¹
381 – 410	30	Employee Last Name	EDB0252 ¹
411 – 436	26	Filler	Value is spaces

*All fields starting with field position 161 and continuing to the end have been moved to accommodate the new data elements specified in service request 80253.