Service Request 13259

Service Request 13259, dated 7/24/1997, described a new process being developed for making changes to Benefits data on the EDB. This process would enable an employee to enroll in health and welfare benefits by interacting with an IVR application over the phone. This process would need to update the Employee Data Base (EDB) in the Payroll/Personnel System (PPS) with the collected enrollments as soon as possible after the employee calls. The design of the new process called for the modification of the EDB Employee Status Derivation job, which is already run daily.

Originally, the new PPS function was conceived as part of the existing EDB Employee Status Derivation job. In the interim, it has been decided that Daily Benefits Enrollment Maintenance (DBEM) be separated, at least in its first release, into its own stand-alone process.

Also, the methods possible to create the enrollments, or enrollment transactions, will be expanded to include Internet-based entry. The term Benefits Enrollment System (BES) is used to generally refer to those applications (IVR- and Internet-based) that capture (and will capture) the employee's requests and convert them into enrollment transactions.
**Error Report 1514**

Error Report 1514 states that PPP130 contains an error in the way that it determines whether an employee's data should be updated. In paragraph 1220-CHECK-CHANGES, rows and arrays are compared to saved rows and arrays to determine if anything has changed. If so, EDB-REC-CHANGED is set to TRUE. This later triggers a call to the fetch complex for posting and also causes change file records to be written.

There is no check of the PPA-ARRAY-DATA. If that is the only table change for an employee, the changes are not posted and the ECF is not written. Also, there is no code to count changes to the PPA table and write the results to the PPP1309 Run Statistics report.

This error was fixed at the same time changes were made to PPP130 to accommodate Service Request #13259.

**Programs**

**PPBIVRP2**

This is a new report program that summarizes the statistics from the PPBIVUTL program into the Control Report. This shows the amount of transactions sent by the Benefits Enrollment System, the distribution of transaction types, and the number of transactions successfully added to the process table, PPPBIV.

**PPEC142**

This new program performs edits on dependent transactions. These are performed one employee ID at a time, and include:

1. Edits for the employee's enrollment of a dependent in a plan for which he/she was rejected. In other words if an employee was rejected for enrollment in a specific plan, then the enrollment of his/her dependent(s) in that same plan must also be rejected. This edit is performed on a plan-by-plan basis.
2. Edits for Dependent Add Transactions. If a BES transaction is designated as an Add, then the employee's EDB will be referenced for a duplicate dependent number.
   - If a dependent exists on the EDB with the same dependent number as that on the BES transaction, then that transaction will be rejected.
   - If no dependent exists on the EDB with the same dependent number as that on the BES transaction, then that transaction will be accepted.
3. Edits for Dependent Change Transactions. If a BES transaction is designated as a Change, then the employee's EDB will be referenced for a matching dependent number.
   - If a dependent exists on the EDB with the same dependent number as that on the BES transaction, then that transaction will be accepted.
   - If no dependent exists on the EDB with the same dependent number as that on the BES transaction, then that transaction will be rejected.
DB2 Programs

PPBIVUTL

This new program reads one or more day's worth of Benefits Enrollment System transactions sent from the Benefits Enrollment System and loads all valid transactions into a temporary processing table, PPPBIV. The program reads all the records and maintain statistics, including the total number of transactions read, the number of transactions per entry date, and the number of transactions per transaction type (in all, and per entry date). These statistics are then used by PPBIVRP2 to produce the Control Report.

PPBIVEDB

This new program loads data from the PPPBIV process table to the appropriate current EDB row. The move logic is based on transaction type, which match the transaction layouts into PPP050. In some cases, e.g. the X1 transactions, data elements control further logic.

PPEC140

This new program edits two aspects of the employee's Benefits enrollments. The first edit cross-references the employee's eligibility/BELI with the types of enrollment changes read from the Benefits Enrollment System. The second edit checks for pre-existing enrollments, and whether the employee has already Opted Out of enrollment in a plan.

If the employee is already enrolled in a plan, then any new enrollments, for that same plan, are rejected. Likewise, if the employee has already Opted Out of a plan, then any new enrollments, for that same plan, are rejected.

Opt Outs are likewise rejected. If the employee is either enrolled in a plan, or has already Opted Out, then any Opt Out, for that same plan is rejected.

PPEC143:

This new program performs the Medical Insurance Pending Premium Maintenance for an employee's Benefits Enrollment changes.

PPEC144:

This new program performs the Dental Insurance Pending Premium Maintenance for an employee's Benefits Enrollment changes.

PPEC145:

This new program performs the Vision Insurance Pending Premium Maintenance for an employee's Benefits Enrollment changes.

PPEC722:

This modified program performs coverage derivation for Medical plans. When called from PPP080 or PPP120 it evaluates added dependents for the earliest Dependent Coverage Effective Date. Code has been added to also determine the earliest DCED when called from PPP130 during a BES special process.
This modified program performs coverage derivation for Dental plans. When called from PPP080 or PPP120 it evaluates added dependents for the earliest Dependent Coverage Effective Date. Code has been added to also determine the earliest DCED when called from PPP130 during a BES special process.

This modified program performs coverage derivation for Vision plans. When called from PPP080 or PPP120 it evaluates added dependents for the earliest Dependent Coverage Effective Date. Code has been added to also determine the earliest DCED when called from PPP130 during a BES special process.

This modified program performs coverage derivation for Legal plans. When called from PPP080 or PPP120 it evaluates added dependents for the earliest Dependent Coverage Effective Date. Code has been added to also determine the earliest DCED when called from PPP130 during a BES special process.

This is a new report program that writes the Exception Report. This report is shown in the Detail design document. For this report, additional information is needed from the EDB, specifically the employee's Home Department. This program is executed whenever an exception is encountered. As a result, it is called by many of the programs in this process.

Service Request 13259 describes that for all errors found, a message is to appear on the Exception report, followed by all the employee's BES transaction data. This feature is not fully implemented in this release. A Subsequent release will contain this feature.

This modified program now supports a new special process '5'. This fifth Special Process will be added for Daily Benefits Enrollment Maintenance. PPP020 will be changed to accept the new Special Process Indicator value '5' on the Run Specification Record and will update the SCR Special Process Indicator field with that value.

Changes to this program include:

1. Changing the validation of the System Control Record (from PPPSCR), so that PPP130 can identify the new process and branch to the appropriate logic,

2. Logic to supervise the various subprocesses of DBEM. This includes:
   - Calling the subprocess PPBIVUTL to load the Benefits Enrollment System transactions into the temporary Processing Table, PPPBIV,
   - Calling the Pre-Edit program PPBIVEDB to load the update information from PPPBIV into the appropriate EDB edit fields,
   - Calling the Routine Manager, specifying a new process group. This will in turn call the edit programs needed for this process. PPP130 calls the Routine Manager already, but additional code is necessary to invoke the new process group when the new process is being run,
   - Calling the report program PPBIVRP2, which creates the Control report for this new process.
Copymembers

**CPLNKIV**
This new copymember defines linkage used in calls to various subprocesses.

**CPWSSWCH**
This modified copy member defines common switches used by the edit programs of this process.

**CPWSXBI**
This new copy member defines the report lines for the Control report.

**CPWSXBI**
This new copy member defines the statistical data used for the Control report.

**CPWSXBI**
This new copy member defines the transaction record received from the BES system.

**CPWSXRTN**
This modified copymember was updated with the names of the new subprograms called by PPP130 in the DBEM process.

Include Member

**PPPVZIV**
PPPVZIV is a new Include member that corresponds to the new view PPPVZIV_BIV.

DDL Members

**TSBIV00C**
TSBIV00C is a new member that creates tablespace PPPBIV for the new process table.

**TBBIV00C**
TBBIV00C is a new member that creates the process table PPPBIV.

**IXBIV00C**
IXBIV00C is a new member that creates the index PPPXBIV for the table PPPBIV.

**PPPVZIV**
PPPVZIV is a new member that creates the view PPPVZIV_BIV which references process table PPPBIV.
BIND Member

PPP130
A modified BIND member is included for binding the new programs with PPP130.

Forms

UPAY630
UPAY630 is used for the Run Specification record for PPP020. It was changed to add the new DBEM Special Process value.

Table Updates

Processing Group Table
The Processing Group Table updates define the new Process Group.

Routine Definition Table
Routine Definition Table updates define the new sub-process programs.

System Messages Table
The System Messages Table will be updated to include messages for Daily Benefits Enrollment Maintenance.

Test Plan

A complete test plan is provided with this release.

Campuses are encouraged to use the base system test materials, as well as performing any other desired local tests.

JCL Changes

Refer to the Installation instructions for Production JCL changes.

Installation Instructions

Installation instructions are provided in a separate document.
Timing of Installation

The installation of this release is date mandated. The Benefits Enrollment System IVR System will be installed on January 12th, 1998. This release must be installed in time to process BES transactions from that system.

As usual, campuses are encouraged to install this release in as timely a fashion as possible, and in the normal numeric sequence of releases.

If there are any questions, please send electronic mail to Roy.Staples@ucop.edu, or call at (510) 987-0692.

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