

**Release 1824**

**Service Request 82194**

**2008 Web Merit Enhancements - Phase I**

**Detail Design**

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## **Introduction**

### **Service Request 82194**

Service Request 82194 asks that a mechanism be developed for the extract and costing-related enhancements to the Web Merit online application, so that campuses may utilize the application to process October 2008 salary increases successfully.

Service Request 82194 provides the following background information:

“UCOP Information Systems Support met with representatives from Santa Cruz, San Diego, Santa Barbara, Los Angeles, Riverside, and San Francisco several times in January and February 2008 to discuss how Web Merit could be modified to better meet their business needs. Items were documented, prioritized, and grouped into high-level areas (Extract and Costing, Administrative Functions, Roster, and Reporting). The highest priority items in the areas of the EDB Extract and Costing are included in this phase I request, which impacts Web Merit screens, batch extract and Cost Summary logic and display. This request is the first in a series of 2008 requests.

The work group’s request to remove future distributions from the online Costing Summary led to discussions with the programmers and the work group regarding the Fiscal Cost column calculation. Rather than costing on all distributions, the group decided to cost only on distributions current as of the cycle effective date and to project costs based on those distributions through the end of the fiscal year.”

### **Error Report 2166**

Error Report 2166 reported that there are several syntax errors in the Web Merit application. These do not affect the functioning of the application, but must now be corrected to work with the newest version of the development product RAD.

## **Overview of PPS Modifications**

### **Web Merit EDB Extract Process (Batch)**

Currently, a distribution is extracted from the EDB to the Web Merit database if the distribution’s DOS code in the PPPDOS table is not set up as ‘Differential’ (Pay Category = “D”). The batch extract criteria will be changed to include Pay Category, Calculation Process, and Hours Type of the DOS code.

Currently, Next Salary Review Code is allowed to be blank only for ATB Cycle Types. Logic will be added so that all Cycle Types will allow the Next Salary Review Code to be blank.

### **Web Merit Administration Pages**

Currently the Next Salary Review Code is a required entry field on the Add/Update Merit Cycle pages. The asterisk indicating it is a required field will be removed from the page, and the logic to require the field will be removed. In addition, the wording at the top of the page will be revised because Next Salary Review Code is optional.

A new field labeled Control Step will be added to the Add/Update Merit Cycle pages and will be edited for valid numeric values.

### **Cycle Eligibility Criteria pop-up**

The new Control Step field will be added to the Cycle Eligibility Criteria pop-up.

### **Web Merit Costing Summary pop-up**

- A refresh button will be added to refresh the costing data to reflect all Roster data that has been saved.
- Numeric data on the Costing Summary pop-up will be right-justified.
- The department code and name associated with the Roster Department Selection link that the user follows to open the roster will be added to the heading portion of the Costing Summary pop-up.
- The new Control Step field will be added to the heading portion of the Costing Summary pop-up.
- The Web Merit application calls the Costing Summary stored procedure with input parameters (Cycle ID, Session ID, MDP Level, Access Intent, and ARSM Rule) and displays the resulting Costing Summary details on a pop-up window for the user to review.
- Costing summary stored procedure will be changed to add the DOS code selection logic in the PPPMED table selection criteria to include Pay Category, Calculation Process, and Hours Type. In addition, it will be changed to exclude future distribution lines from the budget and costing calculations.
- Selection criteria will be added to select distributions that are effective on or before Monthly or Bi-Weekly (Monthly, if blank) effective date depending on the Pay Schedule.
- In the calculation logic of end date of the distribution for the financial year, financial year end date will be used ignoring the distribution end date.

## **Programs**

### **New and Modified Programs**

#### **PPP675**

Program PPP675 extracts employee(s) details for the Web Merit roster data from EDB tables for a Cycle defined through the Web Merit System and loads them into the Merit (MRT) database tables. Some of the EDB extracted data are reformatted or calculated using other data fields before the insertion into the Merit tables.

Currently, a Distribution is extracted from the EDB for the Web Merit database if the Distribution's DOS code in the PPPDOS table is not setup as 'Differential' (Pay Category = "D"). In addition, Next Salary Review Code is allowed to be blank only for ATB Cycle Types.

PPP675 will be changed to add the DOS code selection logic in the DIS\_ROW cursor declaration to include Pay Category, Calculation Process, and Hours Type. The new DOS code selection will include only those distributions that satisfy the following conditions:

1. DOS Calculation Process (DOS\_CALC\_PROCESS) is the identification number of the routine used to calculate the gross pay associated with a DOS code. The value of the DOS Calculation Process must be '01' (Rate \* Time) or '02' (Rate \* Time \* Factor).
2. DOS Pay Category (DOS\_PAY\_CATEGORY) indicates the payment category associated with a DOS code. The value of the DOS Pay Category must be 'N' (Regular) or 'A' (Additional).
3. DOS Hours Code (DOS\_HOURS\_CODE) indicates the category to which the reported hours belong. The value of the DOS Hours Code must be 'O' (Overtime) or 'P' (Overtime premium), when the DOS Pay Category is 'A' (Additional).

In addition, logic will be added so that all the Cycle Types will allow Next Salary Review Code to be blank.

### **PPCSTSPR**

PPCSTSPR is a COBOL stored procedure called by the Web Merit application with input parameters (Cycle ID, Session ID, MDP Level, Access Intent, and ARSM Rule) for the Costing Summary details. PPCSTSPR accesses the MRT tables (PPPMCC, PPPMDP, PPPMLA, and PPPMED) to get all the costing qualified distributions, calculates the Costing Summary for all the Funds defined in the PPPFND table for the merit function, and returns the Costing Summary in an array.

PPCSTSPR will be changed to add the DOS code selection logic in the MED\_CURSOR cursor declaration to include Pay Category, Calculation Process, and Hours Type. The new DOS code selection will include only those distributions that satisfy the following conditions:

1. DOS Calculation Process (DOS\_CALC\_PROCESS) is the identification number of the routine used to calculate the gross pay associated with a DOS code. The value of the DOS Calculation Process must be '01' (Rate \* Time).
2. DOS Pay Category (DOS\_PAY\_CATEGORY) indicates the payment category associated with a DOS code. The value of the DOS Pay Category must be 'N' (Regular).
3. DOS Hours Code (DOS\_HOURS\_CODE) indicates the category to which the reported hours belong. The value of the DOS Hours Code must be 'R' (Regular and leave hours).

In addition, the following modifications will be done to exclude future distributions from the budget and costing calculation and ignore the distribution end date for the fiscal cost end date calculation.

1. Select the Monthly and Bi-weekly Effective dates from the PPPMCC table. Substitute the Bi-Weekly effective date with Monthly effective date when Bi-Weekly effective date is blank (low date).
2. In the MED\_CURSOR cursor selection, the selection criteria that selects distributions that are effective on or before the Fiscal end date will be removed. In addition, selection criteria will be added to exclude future distributions that are effective after Monthly or Bi-Weekly effective date depending on the Pay Schedule.
3. In the calculation logic of end date of the distribution for the financial year, the financial year end date will always be used and the distribution end date will be ignored.

## **Include Members**

### **PPPVMCC**

This include member contains the layout for view PPPVMCC\_MCC.

The new DB2 column *MCC\_CONTROL\_STEP* will be added to the above include member associated with the MRT PPPMCC table.

## **DDL Members**

### **PPPMCC Table**

The following **column** is being added to the PPPMCC table:

- MCC\_CONTROL\_STEP

The following **DDL member will contain an ALTER statement** for the new column:

- TBMCC03A (new)

The following **DDL member defines** the PPPMCC table and will incorporate the new column:

- TBMCC00C

The following **view DDL member** will incorporate the new column:

- PPPVMCC

## **Java Changes**

### **Data Access Beans**

Web/JavaSource/dataAccessBeans

#### **CycleIdDetailAccessBean.java**

This contains the database access code for cycle-related data. It will be modified as follows:

- The new control step field will be added to the list of fields retrieved from the PPPMCC table in the getPPPMCC method.
- Code will be added to invoke the new set method for the control step field in the getPPPMCC method.
- The new control step field will be added to the list of fields inserted into the PPPMCC table in the insertCycleData method.
- The new control step field will be added to the list of fields updated in the PPPMCC table in the updateCycleData method.
- Call to replaceFirst method will be added to return zero, if the value of control step is blank inside insertCycleData and updateCycleData methods.

## **Display Beans**

Web/JavaSource/displayBeans

### **CycleDetailObject.java**

This is the object which defines the cycle detail. It will be modified as follows:

- The new control step field will be added.
- Get method getControl\_step to return the value of the new control step field will be added.
- Set method setControl\_step to set the value of the new control step will be added. In addition, this method sets the value of control step to blank, if its value is zero.

## **Java Event Handlers**

Web/JavaSource/eventHandlers

### **RosterHandler.java**

RosterHandler.java is the Event handler program for roster related events. It will be modified as follows:

- Code will be added to obtain the new control step field from the PPPMCC table. This will be passed to the costing summary screen in an attribute on the request. Currently, the program uses the getOneCellString method to obtain the control percent from PPPMCC. It will be changed to use the getRSAL to get both the control step and control percent.
- Code will be added to obtain the department code and name from the PPPMDP table by invoking the getRSAL method. These will be passed to the costing summary screen in attributes on the request.

## **Web Pages**

Web/Webcontent/Pages

### **AdminCycleAddNew.jsp and AdminCycleEdit.jsp**

These are the web pages for defining and modifying merit cycles. They will be modified as follows:

- The asterisk indicating that the Next Salary Review Code selections are required will be removed. In addition, the wording at the top of the page will be changed to indicate the optional Next Salary Review Code.
- An entry field for the new control step field will be added to the screen.

### **AdminCycleUpdateStatus.jsp**

This is the web page for updating the cycle status. It will be modified to correct an if/then/else syntax error.

### **FAQ.htm**

This is the web page for the FAQ. It will be modified to correct syntax errors:

- The <html> tag will be added.
- An extraneous </p> tag will be removed.

### **RosterCostingSummary.jsp**

This web page is the costing summary display. It will be modified as follows:

- The following numeric fields will be right-aligned:  
Current Salary Base  
Merit Allocation  
New Salary Base  
Annual Cost  
Under Over  
Annual Cost%  
Fiscal Cost
- The department and control step fields will be obtained from the attributes passed from RosterHandler. They will be added to the screen heading.
- A refresh button will be added to reload the costing data.
- Javascript code will be added to handle the refresh button.

### **RosterCycleDetail.jsp**

This web page is the pop-up display of the roster cycle eligibility criteria. It will be modified as follows:

- The new control step field will be added to the display, obtained from the cycle detail object.

### **RosterRangeBased.jsp**

This is the web page for the range-based rosters. It will be modified as follows:

- An extraneous </tr> html tag will be removed.
- Hidden fields for session id and mdplevel will be added for use by the costing screen.

### **RosterStepBased.jsp**

This is the web page for the step-based rosters. It will be modified as follows:

- Hidden fields for session id and mdplevel will be added for use by the costing screen.

## **JavaScript**

Web/Webcontent/javascript

### **AdminCycle.js**

This JavaScript program validates merit cycle Add/Update form data. It will be modified as follows:

- A new edit will be added to edit the new control step field for numeric values.
- The edit requiring that at least one value be selected for Next Salary Review Code will be removed.

### **AdminErrorMessages.js**

This JavaScript program contains error messages used in JavaScript alerts on the cycle administration screens. It will be modified as follows:

- The following message will be removed: msg1114 = "Please check one or more of the Next Salary Review Code(s). This is a required field."
- A new message will be added to indicate that an invalid value was entered for the control step field.