Service Request 17461
Sub-Location Functionality in PPS

Detail Design

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INTRODUCTION

It was determined that some campuses needed an additional level of separation of non-academic title information by a category higher than department to provide campuses with the ability to maintain separate rates for different parts of the organization, e.g. campus vs. medical center, so the concept of sub-location was established. Now that sub-location functionality exists in both the Title Code System (TCS) and in the Title Code Table (TCT) in the Payroll and Personnel System (PPS), it is time to add that functionality to all payroll processing and reporting for those campuses which choose to use it. The requirements are established in Service Request 17461.

The purpose of this document is to describe the details of the implementation of sub-location logic in the base payroll system at the University of California. Every aspect of the implementation is specified so nothing gets overlooked. All the procedures, tables, programs, screens, and forms that need to be processed are specified herein. However, consideration of multiple usage of the same title code for several sub-locations is not covered here since that is considered only a possible future need.
OVERVIEW

A careful search of all the objects in the payroll system that may be affected by the addition of sub-location was undertaken. All objects identified as either needing changes or which encompass changed objects (such as copy members in COBOL programs) are cataloged. Wherever sub-location is derived or modified, it will be done ONLY for non-academic title codes identified as such by the value of Personnel Program Code in the Title Code Table PPPTCl.

Since only some campuses need or want sub-location capability, the changes must be designed to be functional in either environment, and to work in the transition from not using sub-location to the initial usage of sub-location. As much as possible, the existence of sub-location capability must be hidden from users whose campus has not already chosen to activate sub-location processing.

Sub-location processing will be driven by coding a specific sub-location for each department on the Home Department Table from which it will be applied to other payroll records such as Appointments on the Employee Data Base (EDB) and in the History Data Base (HDB), and to payroll transactions on the Earnings Table of the Payroll Audit Record (PAR). Also, the Pay Scale File passed from TCS and the Retro Rate History Table need sub-location incorporated.
DIFFERENCES FROM REQUIREMENTS

A number of issues were raised during work on this project that required clarifications of requirements, but none resulted in changing the original requirements as published. The issues raised all addressed details that the requirements did not address.
DDL MEMBERS FOR DB2 CHANGES

Home Department Table (PPPHME)
A new column needs to be added to the PPPHME table to contain the sub-location to which that department belongs.

The standard CTL DDL members defining the table and its views will be modified.
- TBHME00C
- PPPVZHME

For campuses that alter tables rather than recreate them, an ALTER TABLE member will be created to add the new column.
- TBHME04A

HME_SUB_LOCATION CHAR(2) NOT NULL WITH DEFAULT

(NOTE: Most campuses will use the ALTER strategy rather than the CREATE strategy because dropping and recreating a table requires recreating all of the views and indices as well, and in production, means unloading the data, doing the DDL work, then reloading the data and allowing DB2 to recreate the indices. That’s a lot of work, and risky, too.)

Home Department History Table (PPPHMEH)
A new column needs to be added to the PPPHMEH table for the sub-location to which that department belonged at the time the row was added to the table.

The standard CDB DDL members defining the table and its views will be modified.
- TBHMEH00C
- PPPVHMEH

For campuses that alter tables rather than recreate them, an ALTER TABLE member will be created to add the new column.
- TBHMEH3A

HME_SUB_LOCATION CHAR(2) NOT NULL WITH DEFAULT

Appointment Table (PPPAPP)
A new column needs to be added to the PPPAPP table to contain the sub-location associated with that appointment’s department. It will be used to retrieve data from the Title Code Tables that are subordinate to sub-location.
The standard EDB DDL members defining the table and its views will be modified.
- TBAPP00C
- PPPVAPP1
- PPPVAPP2
- PPPVAPT1
- PPPVZAPP

For campuses that alter tables rather than recreate them, an ALTER TABLE member will be created to add the new column.
- TBAPP03A

**APPT_SUB_LOCATION** CHAR(2) NOT NULL WITH DEFAULT

### Appointment History Table (PPPAPN)

A new column needs to be added to the PPPAPN table to contain the sub-location associated with that appointment’s department. It will provide a record of the sub-location linked to that appointment department at the time the appointment history row is created.

The standard HDB DDL members defining the table and its views will be modified.
- TBAPN00C
- PPPVAPN1
- PPPVZAPN

For campuses that alter tables rather than recreate them, an ALTER TABLE member will be created to add the new column.
- TBAPN01A

**APPT_SUB_LOCATION** CHAR(2) NOT NULL WITH DEFAULT
**APPT_SUB_LOC_C** CHAR(1) NOT NULL WITH DEFAULT

### Earnings Table (PPPERN)

A new column needs to be added to the PPPERN table to contain the sub-location code. It will link the earnings record to a rate record on the Title Code Table. It was necessary to store the sub-location on the PAR record and thus on the permanent record of earnings to provide a trail allowing us to "prove" the validity of the selected regular, on-call or shift-differential rate used during the compute. This is especially true of on-call and shift rates which are looked up in the TCT based on the sub-location used. There is nothing else on the PAR which would allow us to determine exactly which rate set was looked up.
The standard PAR DDL members defining the table and its views will be modified.
- TBERN00C
- PPPVZERN

For campuses that alter tables rather than recreate them, an ALTER TABLE member will be created to add the new column.
- TBERN04A

\textbf{ERN\_SUB\_LOCATION} \quad \textbf{CHAR(2) NOT NULL WITH DEFAULT}

\textit{Retro Rate History Table (PPPRRH)}

A new column needs to be added to the PPPRRH table as a key column to contain the sub-location code to which the rates on the row were linked at the time it was created. Because the new column is being inserted among other key fields rather than being added to the end of the row, the table will need to be dropped and recreated, and all dependent DB2 objects recreated as well.

Since the new column is being added to the table index, the existing index must be dropped and recreated to include the new primary key column. The modified DDL for the index is provided.
- IXRRH00C

The standard CDB DDL members defining the table and its views will be modified.
- TBRRH00C
- PPPVZRRH

\textbf{RRH\_SUB\_LOCATION} \quad \textbf{CHAR(2) NOT NULL WITH DEFAULT}
PROGRAMS

PPACTION

PPACTION is called by USER12 to generate action codes. When sub-location changes, the program will be modified to generate ACTION-OTHER.

PPAPNFET

PPAPNFET is part of the Fetch Complex that retrieves rows from the PPPAPN Table. It will now need to retrieve sub-location as well.

PPAPNHST

PPAPNHST updates changed fields on the HDB. Code to process sub-location needs to be added to all processing of the APN row.

PPAPNUPD

PPAPNUPD updates the APN rows on the HDB. New column sub-location must be added to the process.

PPAPPPUTW

PPAPPPUTW is part of the Update Complex that processes updates to APP rows. New column APP_SUB_LOCATION must be added to all processing of the APP row.

PPAPTDPT

PPAPTDPT is called by PPEM109 to derive appointment department. It must now also derive sub-location when the system parameter that specifies that sub-location is in use has been turned on, which requires making it a DB2 program with all the standard processing and linkage used for DB2 programs in PPS.

It also needs to eliminate deleted appointments and distributions from the derivation of appointment department and checking for error conditions to correct an existing bug in the program.

When no appointment department is derived (such as when there are no distributions) use 999999 as the default department. Extract the sub-location from the HME table. If it is different than the current one in the appointment, audit the change using the existing audit table process for appointment department changes.

Add KRMI-LINKAGE-SECTION to the PROCEDURE DIVISION header to allow using its calling program identifier, and setting the error flag for DB2 errors if needed.
Examine all the distributions to see if any of them derive a conflicting sub-location. This comparison must be made whether or not a new sub-location is derived since the problem may stem from a changed or added distribution. If any conflicts are found, issue error message 08–753 or 12–753, depending on which program called PPAPTDPT. The error message handling needs to be expanded to included data value and data length so the specific sub-location and distribution department can be specified in the error message.

**PPAXDCHG**

PPAXDCHG compares all appointment and distribution data elements to see if their initial value has changed, and sets a switch for those which have. Code must be added to examine sub-location as well.

**PPAXDFET**

PPAXDFET drives the retrieval of data elements from the APP and DIS rows. Code to process sub-location must be added.

**PPAXDUPD**

PPAXDUPD drives the update of APP and DIS rows. Sub-location must be added to the processing of all data elements.

**PPAXDUTL**

PPAXDUTL loads a subscripted array of all appointment and distribution data. Sub-location processing must be added.

**PPDB2PAR**

PPDB2PAR loads the DB2 PAR tables from the Payroll Audit Record (PAR). Loading ERN_SUB_LOCATION needs to be added to the process.

**PPDXAPPT**

PPDXAPPT builds the appointment segment of employee documents. To avoid the need for sub-location considerations, change the call to PPTCTUTL for staff employees to a call which just retrieves the title name since that is all that is needed.

**PPEC002**

PPEC002 is the consistency edit routine for Title Code. If no sub-location row was found in the Title Code Tables, editing of the FLSA indicator must be bypassed.
**PPEC009**
A new program is needed to handle editing of title code and sub-location for the file maintenance process to replace code currently in program USER08. PPEC009 must verify that a title code exists on the Title Code Table, and if the sub-location process parameter is on, must verify that for staff titles there exists data for the appointment’s sub-location as well. If the title code is not on the TCI table, existing message 08-045 must be issued. If it is on the TCI table but not on the TSL table for the specified sub-location, new message 08-085 must be issued.

**PPEC052**
PPEC052 is the DOS consistency edit. It has an unused reference to CPLNKTCL that should be removed.

**PPEDTPAY**
PPEDTPAY is called by PPP360, PPEDTLAR, and PPEDTTEX to edit payroll transactions. When sub-location is activated, it needs to derive a sub-location from the full accounting unit (FAU) using utility program PPFAU002 to get the department with which to retrieve the sub-location from the HME table. Also, one call to retrieve data from the Title Code Table, which was introduced in Release 1289, needs to be modified in the same way as other programs were modified for Release 1304, TCT Structure Changes. Because these releases were being prepared simultaneously, the code released in 1289 was not completely updated for 1304.

With sub-location activated, it will also be necessary to check for a valid sub-location when processing overtime, and to issue 36-048 issued when rates are not found.

**PPEI002**
PPEI002 is a consistency edit routine for Title Code. It currently uses an External for Title Code data. A call to PPTCTUTL needs to be added to ensure that all CPLNKTCL data is current, especially some 88 values that imply successful actions in PPTCTUTL calls.

**PPEM003**
PPEM003 sets the data element change flag for deleted elements. It must also do so for sub-location.
**PPEM109**

PPEM109 drives the determination of appointment department, the derivation of appointment pay rates, and leave accrual derivation. It is now called only by USER12 and PPP130 but will also need to be called by USER08 to perform consistency editing for sub-location which requires knowing the appointment department. The appointment department message table needs to be added, including new messages for both the edit and update process. When PPEM109 is called by USER08 it needs to derive the appointment department by calling PPAPTDPT, and posting updates and error messages from PPAPTDPT, but no other processing in PPEM109. When called any other way, PPEM109 needs to continue doing all processing as before. To facilitate communications between PPEM109 and PPAPTDPT, KRMI-LINKAGE-AREA needs to be added to the CALL. Also the newly created fields of error field content and length need to be posted to the KMTA error array along with the message number.

**PPEM112**

PPEM112 derives Job Group. It needs sub-location added to the data elements that it loads into the array defined in CPLNKAP2.

**PPGRSAUP**

PPGRSAUP is called by PPP390 and PPRCGRSS to process EDB appointments that get automatic pay. It needs to move the sub-location from the appointment to the array it builds for processing.

**PPGRSERN**

PPGRSERN is called by various programs in the gross pay derivation process to calculate earnings. It needs to be made a DB2 program with all the usual code including error handling to provide the sub-location logic needed. When sub-location is activated, it needs to derive a sub-location from the full accounting unit (FAU) using utility program FAU002 to get the department with which to retrieve the sub-location from the HME table. This will then be used in TOC rate calls via PPTCTUTL.

**PPGRSPAR**

PPGRSPAR is called in the gross pay derivation process to build the Payroll Audit Record. It needs to be made a DB2 program with all the usual code including error handling to provide the sub-location logic needed. When sub-location is activated, it may be necessary to derive a sub-location from the full accounting unit (FAU) using utility program PPFAU002 to get the department with which to retrieve the sub-location from the HME table. When such a sub-location is found, it needs to be placed in the PAR record.
**PPHMEHUP**

PPHMEHUP updates the Home Department History Table. It needs to process Sub-location as well.

**PPHRMGR**

PPHRMGR creates an array of report lines from HDB data. It needs sub-location processing added to the logic. Since this new field must be squeezed into already crowded report lines, existing labels and data fields need to be compressed as well.

**PPIMERIT**

PPIMERIT determines the pay rate which is to be used for retroactive merit payments. Sub-location needs to be added to all record layouts immediately after title code, and program logic needs to match records by all the existing key fields and sub-location.

**PPIMULTI**

PPIMULTI determines the old pay rate for multiple retroactive pay processing. Sub-location needs to be added to all accesses of the Retro Rate History table, and to the key comparison logic.

**PPIRANGE**

PPIRANGE extracts pay rates from the pay scale file for both merit and range adjustments. It needs sub-location added to pay scale access logic as part of the key, and to all record layouts as well. Since TCS allows individual Title Codes to be converted to specific sub-location while others continue with the default, PPIRANGE must be modified to first look for a Title Code entry with the default sub-location. If one is found, the default value ** will be used in further lookups. If one is not found, the value passed in CPWSXRAI will be used in further lookups.

**PPNTAPPT**

PPNTAPPT produces the appointment/distribution change notification. It needs a subscripting bug corrected to allow correct processing of all possible appointment and distribution numbers.

**PPORAUDT**

PPORAUDT produces the audit report for cancellations, overpayments and reversals of ORCA grosses. It needs a move of sub-location from the Earnings record via the ORCA array to the payment report line.

**PPORCNCL**

PPORCNCL processes cancellations of ORCA grosses. It needs a move of sub-location from the Earnings record to the ORCA array added.
PPOROVPY
PPOROVPY processes overpayments of ORCA grosses. It needs a move of sub-location from the Earnings record to the ORCA array added.

PPORRVSL
PPORRVSL builds abeyance transactions for ORCA processing. It needs a move of sub-location from the Earnings record to the ORCA array added.

PPP010
PPP010 processes table updates. Processing Home Department transactions and reporting on HME table content needs sub-location added. A new message is needed to report attempts to specify unrecognized sub-locations.

PPP300
PPP300 extracts appointment data from the EDB for specified pay cycles. It needs to have the SORT, OVERTIME, and TIME record layouts modified by the addition of sub-location, replacing existing filler. It also needs to display sub-location on the report it produces, and to move the value from the KAPT array to the SORT record.

PPP390
PPP390 is the starting point of the gross pay calculation process. It needs to load the value of system parameter 263, as described in Table Updates below, into the control area passed among all the subroutines called from PPP390.

PPP440
PPP440 produces the payroll audit report. It needs sub-location added to the report when the sub-location system parameter is “on.”

PPP470
PPP470 produces the payroll history report. It needs sub-location added to the report when the sub-location system parameter is “on.”

PPP480
PPP480 produces a record of earnings report. It needs sub-location added to the report when the sub-location system parameter is “on.”

PPP520
PPP520 processes expense distributions. It needs processing added for sub-location to parallel existing Title Code processing, placing the sub-location on the expense distribution work file.
PPP530

PPP530 produces expense distribution reports. It needs an obsolete reference to CPWSXHME deleted and needs sub-location added to the Expense Distribution report work file.

PPP532

PPP532 produces summer faculty salary benefit reports. It needs moves of Sub-location added wherever Title Code is processed.

PPP635

PPP635 produces the Affirmative Action Extract file. It needs to use the newly created call to PPTCTUTL to request the absolute minimum and maximum salary rates for a title across all sub-locations.

PPP670

PPP670 produces merit rosters. It needs to be modified to add sub-location in the call to PPTCTUTL.

PPP680

PPP680 generates payroll transactions from a merit process. It needs a move of sub-location from the appointment to the merit data file.

PPP684

PPP684 creates the Merit Data File from merit transactions. It needs the file definition of the Merit Data File augmented with two bytes for the sub-location, and it needs a move of sub-location from the transaction record to the Merit Data File.

PPP685

PPP685 creates the Merit Match File by extracting data from the Merit Data File. Both files need to be augmented by two bytes for sub-location, as do the print work and sort files. The report layout needs to have sub-location inserted, and the report headers need to be adjusted accordingly. The sub-location needs to be part of the SORT key immediately after Title Code. Every place where Title Code is moved from a source to a target, an analogous move of Sub-location is needed also.

PPP686

PPP686 updates the RRH table from the Merit Match File. Sub-location needs to be added to the processing between these objects analogously to Title Code processing. The Merit Match File becomes two bytes larger to provide space for sub-location.
PPP851

PPP851 loads the DB2 tables from the Control File. A move of sub-location is needed in the processing of the home department table.

PPP900

PPP900 updates the pay rate file. It needs sub-location inserted into the pay rate and sort files, and into associated work areas, expanding each by two bytes. Wherever Title Code is part of the key of any structure, sub-location needs to be inserted immediately after it, and all key comparisons need to refer to sub-location as well. Report headings and all detail lines need to be augmented with sub-location. If an unknown sub-location is encountered, an error message needs to be produced. Whenever Title Code is moved from one structure to another, a corresponding move of Sub-location must be inserted.

Academic Title Codes have a blank (not **) sub-location. To allow for common code in PPP910/PPIRANGE lookup for both values of System parameter 263 (i.e. for blank sub-location and valid sub-locations on appointment rows), PPP900 will be modified to place ** in the sub-location of input transactions with blank sub-locations.

PPP910

PPP910 is the driver of the Range Adjustment Process. Sub-location needs to be inserted into all the transaction record layouts, using available filler. Whenever Title Code is moved from one structure to another, a corresponding move of Sub-location must be inserted.

PPP920

PPP920 updates the rate adjustment time file. It needs a move of sub-location from the time file to the interface to PPIRANGE.

PPP930

PPP930 processes retroactive range adjustments. It needs a move of sub-location from the PAR record to the PPIRANGE interface.

PPP946

PPP946 creates pay transactions based on the Retroactive Range Adjustment table. It needs to retrieve system parameter 263 to select processing paths, and produce an abend message if none is retrieved. When sub-location is activated, it needs to use the FAU of the RRA row first to retrieve the department number using utility program PPFAU002, and then retrieve the sub-location using the department number just retrieved.

PPP995

PPP995 will be a new program to assign or update sub-location codes to appointments. This program should be reusable when needed, such as when a department is reassigned to a new sub-location, and should take actions only
when the new sub-location value retrieved from the home department table is different than what is currently in the appointment.

It should be usable to report on conflicting distributions with or without updating the Appointment Table, and to produce reports in Department, Employee Name, or Employee ID order. The user should be able to specify that conflicting distributions will either suppress updates (the default) or allow updates.

Updates should be inhibited unless System Parameter 263 is turned on. If updates are made, a record needs to be written to the Employee Change File, and the update needs to be shown on a report (separate from the error report of conflicting distributions).

During initial processing the PPPHME Home Department table will be read to ensure that all contain a valid sub-location, and that default department 999999 exists on the table. If either condition is not met PPP995 will stop.

**PPPBLS**

PPPBLS produces a report for the California Bureau of Labor Statistics. It needs a faulty move of data not retrieved by PPTCTUTL deleted.

**PPRCAUDT**

PPRCAUDT produces the audit report for the OPT1 Rush Check process. It needs a move of sub-location from the Appointment via a RCTS array to the payment report line.

**PPRCGRSS**

PPRCGRSS processes gross pay derivation for rush checks. When sub-location is activated, it needs to use the FAU of the appointment work area first to retrieve the department using utility program PPFAU002, and then retrieve sub-location using the just retrieved department number before calling PPTCTUTL.

**PPRCOPT1**

PPRCOPT1 processes on-line rush check option 1 transactions. It needs to load the value of System Parameter 263 into the linkage area for use by called routines.

**PPRCOPT2**

PPRCOPT2 processes on-line rush check option 2 transactions. It needs to load the value of System Parameter 263 into the linkage area for use by called routines.

**PPTCTUTL**

PPTCTUTL is the utility that retrieves data from the title code tables. It needs to be replaced with a new version which handles all needed calls with and without sub-location activated. Much of what was coded previously was based on the now discarded expectation that when sub-location was implemented, rows for every sub-location for every title would be provided by TCS.
The new version first needs to retrieve System Parameter 263 using utility program PPPRMUT2 to make processing choices for data retrieval. It also needs to process new call type XTCL-READ-ABS-MIN-MAX from PPP635 and PPWHLOF to retrieve the absolute minimum and maximum pay rates for a title code, regardless of sub-location and pay representation code.

Results of attempts to retrieve sub-location rows and rates need to be communicated to calling programs using newly-defined settings XTCL-TSL-ROW-FOUND, XTCL-TSL-ROW-NOT-FOUND, XTCL-TPA-ROW-FOUND, and XTCL-TPA-ROW-NOT-FOUND.

Receiving fields for Academic Title codes not previously initialized should be set to spaces before attempting to load data so no residual data is left therein when a row is not found.

The READ-LONG logic needs to be corrected so it works as intended.

Retrievals from the PPPTPC table should be limited to the 125-row capacity of the internal array. Currently an overflow could cause undesirable side effects.

Code should be inserted to bypass subsequent loading of data areas whenever an attempt to retrieve table data fails, since the results are unpredictable and may cause an abend.

**PPWEAPC**

PPWEAPC is the processor for the consolidated appointment/distribution update screen. It needs to be made a DB2 program with the standard linkage and error handling capabilities. It also needs to access system parameter 263 to select logic paths. When the parameter is “on,” the program needs to place sub-location on the screen under the appropriate heading. When the parameter is “off,” neither the heading nor a value should be shown.

Sub-location should be manipulated correspondingly to title code; wherever code processes one, similar actions should be taken on the other.

If the user enters a department code on the screen, it becomes necessary to derive a possibly different sub-location when system parameter 263 is “on.” If the entered department code is not on the Home Department Table, retrieve the sub-location for default department 999999.

Whether it changes or not, sub-location must be put into the data element array and flagged as “display” for PPPVREDO processing when system parameter 263 is “on” but not otherwise.
**PPWEAPP**

PPWEAPP is the processor for the full appointment/distribution update screen. It needs to be made a DB2 program with the standard linkage and error handling capabilities. It also needs to access system parameter 263 to select logic paths. When the parameter is “on,” the program needs to place sub-location on the screen under the appropriate heading. When the parameter is “off,” neither the heading nor a value should be shown.

Sub-location should be manipulated correspondingly to title code; wherever code processes one, similar actions should be taken on the other.

If a new appointment is created on the screen, retrieve sub-location for its department number from the home department table.

If the user enters a department code on the screen, it becomes necessary to derive a possibly different sub-location when system parameter 263 is “on.” If the entered department code is not on the Home Department Table, retrieve the sub-location for default department 999999.

Whether it changes or not, sub-location must be put into the data element array and flagged as “display” for PPPVREDO processing when system parameter 263 is “on” but not otherwise.

**PPWHADC**

PPWHADC is the compact appointment distribution history inquiry screen processor. It needs to access system parameter 263 to select logic paths. When the parameter is “on,” the program needs to place sub-location on the screen under the appropriate heading. When the parameter is “off,” neither the heading nor a value should be shown.

The cursor used to order retrieved appointment history rows needs sub-location added to its list of columns and to the sequence selection as the next lower key after Title Code. The FETCH of the cursor need sub-location added, as does the SELECT for the APN table.

Structures in storage containing Title Code need Sub-location inserted immediately following. Code that moves data to Title Code fields needs corresponding moves for Sub-location.

Prior to calling PPTCTUTL, both sub-location and pay representation code values must be set in the calling linkage.

PPCTTUTL needs to be used to retrieve the expanded sub-location names to display on the screen. Wherever screen attributes are manipulated, corresponding code is needed for sub-location, based on the value of system parameter 263.
**PPWHADF**

PPWHADF is the appointment distribution history inquiry screen processor. It needs to access system parameter 263 to select logic paths. When the parameter is “on,” the program needs to place sub-location on the screen under the appropriate heading. When the parameter is “off,” neither the heading nor a value should be shown.

The cursor used to order retrieved appointment history rows needs sub-location added to its list of columns and to the sequence selection as the next lower key after Title Code. The FETCH of the cursor needs sub-location added, as does the SELECT for the APN table.

Structures in storage containing Title Code need Sub-location inserted immediately following. Code that moves data to Title Code fields needs corresponding moves for Sub-location.

Prior to calling PPTCTUTL, both sub-location and pay representation code values must be set in the calling linkage.

PPCTTUTL needs to be used to retrieve the expanded sub-location names to display on the screen. Wherever screen attributes are manipulated, corresponding code is needed for sub-location, based on the value of system parameter 263.

**PPWHLOF**

PPWHLOF is the layoff history inquiry screen processor. It needs the call to PPTCTUTL changed to READ-ABS-MIN-MAX in the absence of any algorithm to determine correct grade or step values. It also needs two remaining direct selects from the TCI table (overlooked in Release 1304) replaced with calls to PPTCTUTL.

**PPWHSUM**

PPWHSUM is the appointment distribution history inquiry summary screen processor. It needs to access system parameter 263 to select logic paths. When the parameter is “on,” the program needs to place sub-location on the screen under the appropriate heading. When the parameter is “off,” neither the heading nor a value should be shown.

The cursor used to order retrieved appointment history rows needs sub-location added to its list of columns and to the sequence selection as the next lower key after Title Code. The FETCH of the cursor needs sub-location added, as does the SELECT for the APN table.

Structures in storage containing Title Code need Sub-location inserted immediately following. Code that moves data to Title Code fields needs corresponding moves for Sub-location.
Wherever screen attributes are manipulated, corresponding code is needed for sub-location, based on the value of system parameter 263.

**PPWIAPN**

PPWIAPN is the appointment history inquiry screen processor. It needs to access system parameter 263 to select logic paths. When the parameter is “on,” the program needs to place sub-location on the screen under the appropriate heading. When the parameter is “off,” neither the heading nor a value should be shown.

All the cursors used to retrieve appointment data need sub-location and the sub-location change indicator added to the list of retrieved columns. The FETCH of the cursors all need sub-location and its change indicator added.

Structures in storage containing Title Code need Sub-location inserted immediately following. Code that moves data to Title Code fields needs corresponding moves for Sub-location.

Wherever screen attributes are manipulated, corresponding code is needed for sub-location, based on the value of system parameter 263.

**PPWIAPP**

PPWIAPP is the appointment inquiry screen processor. It needs to access system parameter 263 to select logic paths. When the parameter is “on,” the program needs to place sub-location on the screen under the appropriate heading. When the parameter is “off,” neither the heading nor a value should be shown.

The SELECT for appointment data needs sub-location added to the list of columns. Code that moves data to Title Code fields needs corresponding moves for Sub-location.

PPCTTUTL needs to be used to retrieve the expanded sub-location names to display on the screen. Wherever screen attributes are manipulated, corresponding code is needed for sub-location, based on the value of system parameter 263.

**PPWIAPS**

PPWIAPS is the appointment summary inquiry screen processor. It needs to access system parameter 263 to select logic paths. When the parameter is “on,” the program needs to place sub-location on the screen under the appropriate heading. When the parameter is “off,” neither the heading nor a value should be shown.

The cursor used to order retrieved appointment rows needs sub-location added to its list of columns. The FETCH of the cursor needs sub-location added also.

Wherever screen attributes are manipulated, corresponding code is needed for sub-location, based on the value of system parameter 263.
PPWIAPT

PPWIAPT is the compact appointment and distribution inquiry screen processor. It needs to access system parameter 263 to select logic paths. When the parameter is “on,” the program needs to place sub-location on the screen under the appropriate heading. When the parameter is “off,” neither the heading nor a value should be shown.

The SELECT for appointment data needs sub-location added to the list of columns. Code that moves data to Title Code fields needs corresponding moves for Sub-location.

PPCTTUTL needs to be used to retrieve the expanded sub-location names to display on the screen. Wherever screen attributes are manipulated, corresponding code is needed for sub-location, based on the value of system parameter 263.

PPWIERN

PPWIERN is the Earnings Distribution inquiry screen processor. It needs to access system parameter 263 to select logic paths. When the parameter is “on,” the program needs to place sub-location on the screen under the appropriate heading. When the parameter is “off,” neither the heading nor a value should be shown.

All the cursors used to retrieve earnings data need sub-location added to the list of retrieved columns. The FETCH of the cursors all also need sub-location added.

PPCTTUTL will be used to retrieve the expanded sub-location names to display on the screen. Wherever screen attributes are manipulated, corresponding code is needed for sub-location, based on the value of system parameter 263.

PPWRC11

PPWRC11 is the Rush Checks OPT1 Deductions and Earnings entry screen processor. The selection of EDB appointment data needs to be modified to include sub-location.

USER08

USER08 is the driver for the file maintenance edit process. When System Parameter 263 is “on” USER08 needs to rederive distribution department codes for non-Academic Title Codes using PPFAU002, before editing for possible sub-location errors. It then needs to call PPRTNMGR to execute new processing group 25 to derive sub-location based on any changes made to distributions or the appointment, and new processing group 13 which consists of new consistency edit routine PPEC009 to verify that the title and (new) sub-location exist.
USER12

USER12 is the driver for the file maintenance update process. Sub-location and pay representation code need to be set from the appointment values prior to the call to PPTCTUTL. Sub-location processing needs to be added to the auditing process.

The interface for PPAPTDPT needs to be made EXTERNAL.
INCLUDE MEMBERS

Appointment Table (PPPAPP):
The EDB Include members defining the working storage and Views for a table row in the PPPAPP table will be modified:
- PPPVAPP1
- PPPVAPP2
- PPPVAPT1
- PPPVZAPP
New column APPT_SUB_LOCATION that contains the sub-location code for the appointment will be added.

Working storage:
10 APPT-SUB-LOCATION PIC X(02).

View:
,APPT_SUB_LOCATION CHAR(2) NOT NULL WITH DEFAULT

This addition increases the size of the defined area by two bytes and requires recompiling all programs that access any of these members.

Appointment History Table (PPPAPN)
The EDB Include members defining the working storage and Views for a table row in the PPPAPP table will be modified:
- PPPVAPN1
- PPPVZAPN
New column APPT_SUB_LOCATION to contain the sub-location code for the appointment will be added.

Working storage:
10 APPT-SUB-LOCATION PIC X(02).
10 APPT-SUB-LOC_C PIC X(01).

View:
,APPT_SUB_LOCATION CHAR(2) NOT NULL WITH DEFAULT
,APPT_SUB_LOC_C CHAR(1) NOT NULL WITH DEFAULT

This addition increases the size of the defined area by two bytes and requires recompiling all programs which access either of these members.
Earnings Table (PPPERN)
The PAR Include member defining the working storage and View for a table row in the PPPERN table will be modified:
• PPPVZERN
  New column ERN_SUB_LOCATION to contain the sub-location code for the earnings distribution will be added.

Working storage:
10  ERN-SUB-LOCATION          PIC  X(02).

View:
.ERN_SUB_LOCATION              CHAR(2)  NOT NULL WITH DEFAULT

This addition increases the size of the defined area by two bytes and requires recompiling all programs that access PPPVZERN.

Home Department Table (PPPHME)
The CTL Include member defining the working storage and View for a table row in the PPPHME table will be modified:
• PPPVZHME
  New column HME_SUB_LOCATION to contain the sub-location code for the appointment will be added.

Working storage:
10  HME-SUB-LOCATION          PIC  X(02).

View:
.HME_SUB_LOCATION              CHAR(2)  NOT NULL WITH DEFAULT

This addition increases the size of the defined area by two bytes and requires recompiling all programs that access PPPVZHME.

Home Department History Table (PPPHMEH)
The CDB Include member defining the working storage and View for a table row in the PPPHMEH table will be modified:
• PPPVHMEH
  New column HME_SUB_LOCATION to contain the sub-location code for the appointment will be added.

Working storage:
10  HME-SUB-LOCATION          PIC  X(02).

View:
.HME_SUB_LOCATION              CHAR(2)  NOT NULL WITH DEFAULT
This addition increases the size of the defined area by two bytes and requires recompiling all programs that access PPPVHMEH.

**Retro Range History Table (PPPRRH)**

The PCD Include member defining the working storage and View for a table row in the PPPRRH table will be modified:

- **PPPVZRRH**

  New column RRH_SUB_LOCATION to contain the sub-location code for the appointment will be added. It will become part of the primary key of the RRH table, inserted immediately after RRH_TITLE_CODE.

  Working storage:
  10  RRH-SUB-LOCATION          PIC  X(02).

  View:
  .RRH_SUB_LOCATION              CHAR(2)  NOT NULL WITH DEFAULT

  This addition increases the size of the defined area by two bytes and requires recompiling all programs that access PPPVZRRH.
COPYMEMBERS

CPFDXEDF
CPFDXEDF defines the expense distribution work file used by six programs. It needs the maximum file size increased by 100 bytes to accommodate 50 occurrences of sub-location.

CPLNKAP2
CPLNKAP2 defines storage for linkage among 28 payroll programs. It will be modified to add sub-location as an additional field to each appointment occurrence, thus expanding its size by 18 bytes.

CPLNKAP3
CPLNKAP3 defines storage for linkage among USER12, PPP130, PPAPTDPT and PPEM109. It needs to have space defined for all five error messages which PPAPTDPT can generate. It also needs the size of the error array changed from 10 to 100 occurrences to match the existing test for table overflow, which is realistic for the total number of distributions that may cause an error message to be generated. It also needs an area to pass the data value and length of a field in error that is being flagged by PPAPTDPT.

CPLNKAPP
CPLNKAPP (PPI730 PPAPPUTL) only hits. NEED CHANGE???

CPLNKGR1
CPLNKGR1 defines storage for linkage among PPRCGRSS, PPRCOPT1, and PPRCOPT2. It needs the value of system parameter 263 added to it, thus expanding its size by one byte.

CPLNKGRS
CPLNKGRS defines storage for linkage between PPP390 and 16 subroutines. It needs the value of system parameter 263 added to it, thus expanding its size by one byte.

CPLNKTA2
CPLNKTA2 defines storage for linkage among 27 payroll programs. It will be modified to add sub-location as an additional field, thus expanding its size by two bytes.

CPLNKTCI
CPLNKTCI defines storage between PPTCTUTL and 88 other payroll programs. It needs to be replaced with a new version which matches the new version of PPTCTUTL providing for all the new call types and possible return codes as well as all the data areas needed for LONG calls.
CPWPATBL
CPWPATBL defines storage used between PPP465 and PPDB2PAR. Sub-location needs to be added to the ERN array, thus increasing the size of the area defined by 198 bytes for the 99 possible earnings entries.

CPWSACCT
CPWSACCT defines storage used by 10 payroll programs in the gross pay process. It needs sub-location added to the appointment work area where two bytes of filler may be used, thus keeping the size of the area unchanged.

CPWSORCA
CPWSORCA defines storage used by 10 payroll programs used for ORCA processing. Sub-location needs to be added to the ERN array, thus increasing the size of the area defined by 198 bytes for the 99 possible earnings entries.

CPWSRAPN
CPWSRAPN is an external definition of the appointment history row used only by PPAPNHST. It needs sub-location code and sub-location change indicator added which together add 3 bytes to the size of the defined area.

CPWSRAPP
CPWSRAPP defines storage used by 93 programs. It needs sub-location added to it thus increasing the size of the area by 2 bytes.

CPWSRCPW
CPWSRCPW defines External working storage used in online Rush Checks processing. It needs sub-location added to it, which can be done using existing filler so there is no change to the size of the defined area.

CPWSRCTS
CPWSRCTS defines External working storage used in online Rush Checks processing. It needs sub-location added to it, which can be done using existing filler so there is no change to the size of the defined area.

CPWSVPAR
CPWSVPAR defines storage used by PPP390 and 10 sub-routines of the gross pay process. It needs sub-location added to the earnings array, which can be done using existing filler so there is no change to the size of the defined area.

CPWSXEDR
CPWSXEDR defines storage for the expense distribution work file used by six programs. It needs sub-location added to each of 50 occurrences of expense distribution, thus increasing the size of the area by 100 bytes.
**CPWSXEXP**

CPWSXEXP defines storage for the expense distribution type 2 and 3 records used by six programs. It needs sub-location added to each of 50 occurrences of expense distribution, thus increasing the size of the area by 100 bytes.

**CPWSXHME**

CPWSXHME defines storage for the home department table used by 22 programs. It needs sub-location added to it, which can be done using existing filler so there is no change to the size of the defined area.

**CPWSXMDF**

CPWSXMDF defines storage for the Merit Data File used by PPP680, PPP684, and PPP685. It needs sub-location added to it as part of the key immediately after title code, increasing its size by two bytes.

**CPWSXMD2**

CPWSXMD2 defines storage for the Merit Match File used by PPP686. It needs sub-location added to it as part of the key immediately after title code, increasing its size by two bytes.

**CPWSXPAR**

CPWSXPAR defines storage used by 28 payroll programs for the PAR record. Sub-location needs to be added to the earnings array, and there is filler available so the size of the defined area does not change.

**CPWSXPRF**

CPWSXPRF defines storage for the Pay Rate File used by four programs. It needs sub-location added as part of the key immediately after Title Code, adding two bytes to the length of the defined area. The VSAM definition for this file will need to be redefined with the new record length.

**CPWSXRAI**

CPWSXRAI defines storage for the Range Adjustment Interface file used by six programs. It needs sub-location added as part of the key immediately after Title Code, adding two bytes to the length of the defined area.

**CPWSXTIM**

CPWSXTIM defines storage for the Time File used by four programs. It needs sub-location added to it for which there are two bytes of filler available.
SCREEN MAPS

Note that unless otherwise noted, the sub-location filed in the following maps will not be displayed when System Parameter 263 = 0, i.e. when specific sub-locations are not being used.

**PPEAPC0**

This screen, Appts./Distributions-Condense, needs some space to display sub-location to the right of FLSA.

**PPEAPP0**

This screen, Appointments/Distributions, needs some space to display sub-location to the right of FLSA.

**PPECFL0**

This screen, Central Office-FLSA, needs some space to display sub-location to the right of FLSA.

**PPHADC0**

This screen, Appt./Dist. History – Compact, needs a blank line to be used for sub-location since there is no room on any of the appointment lines. The blank line does allow showing the expanded name for the sub-location along with the code.

**PPHADF0**

This screen, Appt./Dist. History – Full, needs a blank line to be used for sub-location since there is no room on any of the appointment lines. The blank line does allow showing the expanded name for the sub-location along with the code.

**PPHSUM0**

This screen, Appointment Summary History, has room in the blank line after each appointment to show the sub-location code and its expanded name.

**PPIAPN0**

This screen, the History Inquiry Appointment Data, has room on the right side of the line showing the appointment number to display sub-location code. Since this screen effectively just displays all the row data from the PPPAPN table, the sub-location field will be displayed regardless of the value of System Parameter 263.

**PPIAPP0**

This screen, the EDB Inquiry Appointment/Distribution screen, needs a line after the appointment data to display the sub-location code and expanded name.

**PPIAPS0**

This screen, the EDB Inquiry Appointment Summary, needs to have room created to the right of FLSA to display the sub-location code.
This screen, the EDB Inquiry Appointment/Distribution (Compact), needs a line after the appointment data to display the sub-location code and expanded name.

This screen, the PAR Inquiry Earnings Distributions, needs a line after the appointment data to display the sub-location code and expanded name.
BINDS

PPTCTUTL now calls PPPRMUT2. Binds for programs which call PPTCTUTL must all be modified to include PPPRMUT2.

**D21H04E:**
The plan bind for D21H04E needs member PPPRMUT2 added.

**PPP003:**
The plan bind for PPP003 needs member PPPRMUT2 added.

**PPP006:**
The plan bind for PPP006 needs member PPPRMUT2 added.

**PPP031:**
The plan bind for PPP031 needs member PPPRMUT2 added.

**PPP040:**
The plan bind for PPP040 needs member PPPRMUT2 added.

**PPP080:**
The plan bind for PPP080 needs members PPAPTDPT and PPEC009 added.

**PPP120:**
The plan bind for PPP120 needs member PPAPTDPT added.

**PPP125:**
The plan bind for PPP125 needs member PPPRMUT2 added.

**PPP130:**
The plan bind for PPP130 needs member PPAPTDPT added.

**PPP390:**
The plan bind for PPP390 needs members PPGRSERN and PPGRSPAR added.

**PPP450:**
The plan bind for PPP450 needs member PPPRMUT2 added.

**PPP510:**
The plan bind for PPP510 needs member PPPRMUT2 added.

**PPP620:**
The plan bind for PPP620 needs member PPPRMUT2 added.
PPP635:  
The plan bind for PPP635 needs member PPPRMUT2 added.

PPP650:  
The plan bind for PPP650 needs member PPPRMUT2 added.

PPP655:  
The plan bind for PPP655 needs member PPPRMUT2 added.

PPP670:  
The plan bind for PPP670 needs member PPPRMUT2 added.

PPP680:  
The plan bind for PPP680 needs member PPPRMUT2 added.

PPP700:  
The plan bind for PPP700 needs member PPPRMUT2 added.

PPP860:  
The plan bind for PPP860 needs member PPPRMUT2 added.

PPP861:  
The plan bind for PPP861 needs member PPPRMUT2 added.

PPP862:  
The plan bind for PPP862 needs member PPPRMUT2 added.

PPP864:  
The plan bind for PPP864 needs member PPPRMUT2 added.

PPP875:  
The plan bind for PPP875 needs member PPPRMUT2 added.

PPP900:  
The plan bind for PPP900 needs member PPPRMUT2 added.

PPP910:  
The plan bind for PPP910 needs member PPPRMUT2 added.

PPP920:  
The plan bind for PPP920 needs member PPPRMUT2 added.

PPP925:  
The plan bind for PPP925 needs member PPPRMUT2 added.
PPP930:
The plan bind for PPP930 needs member PPPRMUT2 added.

PPP946:
The plan bind for PPP946 needs member PPPRMUT2 added.

PPP995 (new):
A plan bind for new program PPP995 needs to be created.

PPWEAPC (new):
A package bind for modified on-line program PPWEAPC needs to be created.

PPWEAPP (new):
A package bind for modified on-line program PPWEAPC needs to be created.
TABLE UPDATES

**Code Translation Table (PPPCTT)**

The four values established for the initial implementation of sub-location plus the default "***" value need to be added to the Code Translation Table using form UPAY814. The codes and values are being copied from COBOL program PPTCTUTL to maintain consistency throughout the Payroll system.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GN</td>
<td>General Campus</td>
</tr>
<tr>
<td>MD</td>
<td>Medical Center</td>
</tr>
<tr>
<td>OP</td>
<td>Office of the President</td>
</tr>
<tr>
<td>AG</td>
<td>Agriculture &amp; Natural Resources</td>
</tr>
<tr>
<td>**</td>
<td>Default</td>
</tr>
</tbody>
</table>

**Data Element Table (PPPDET)**

Appointment Sub-Location will be added as a two-character field, identified as Data Element 2009, with consistency edit routine 9.

Appointment Title Code Data Element 2006 will have consistency edit routine 9 added.

Appointment Department Data Element 2032 will have non-existent consistency edit routine 54 removed.

**History Data Element Table (PPPHDE)**

Appointment Sub-Location needs to be added as a two-character field, identified as Data Element 2009 on the PPPAPN table, using the UHDE screen.

**System Messages Table (PPPMSG)**

A new message needs to be added for programs USER08 and USER12:

CN009 EMPL REJ CONSISTENCY EDIT 009 FAILED

A new message will be added for programs PPWEAPC and PPWEAPP:

P0666 WARNING Appointment Department is changed to blank

A new message will be added for PPP010:

01477 TRAN REJ HOME DEPT TABLE: UNKNOWN SUB-LOCATION
New messages will be added for program PPAPTDPT:

08753 WARNING PPAPTDPT-DIST DEPT HAS DIFFERENT SUB-LOC
12753 WARNING PPAPTDPT-DIST DEPT HAS DIFFERENT SUB-LOC
(A campus may choose to make the severity of these messages EMPL REJECT instead.)
12751 SEE OPER PPAPTDPT-INTERFACE AUDIT-TABLE OVERFLOW
12752 SEE OPER PPAPTDPT-INTERFACE ERROR-TABLE OVERFLOW
12754 SEE OPER PPAPTDPT-DB2 ERROR

A new message will be added for program PPEDTPAY:

36049 EMPL REJ UNABLE TO ESTABLISH FLSA VALUE FOR TITLE CODE

A new message will be added for program PPP440:

44048 SEE SYSTEMS MISSING SYSTEM PARAMETER 263

A new message will be added for program PPP470:

47048 SEE SYSTEMS MISSING SYSTEM PARAMETER 263

A new message will be added for program PPP480:

48048 SEE SYSTEMS MISSING SYSTEM PARAMETER 263

A new message will be added for program PPEC009:

08085 EMPL REJ TITLE ON TITLE CODE TABLE WITH CURRENT SUB-LOC; NOT WITH DERIVED

A new message will be added for program PPP900:

90070 EMPL REJ UNKNOWN SUB-LOCATION

Message text will be modified for program PPP910:

91703 TRAN REJ MATCH ON TITLE CODE BUT NOT SUB/REP/RDUC/RATE DEF

A new message will be added for program PPP946:

94617 SEE OPER MISSING SYSTEM PARAMETER 263

New messages will be added for new program PPP995:

99501 SEE OPER MISSING SYSTEM PARAMETER 263
99502 ACTN REJ SYSTEM PARAMETER 263 DISALLOWS UPDATES
99503 SEE OPER PPP995 SPEC CARD IS MISSING
99504 SEE OPER PROGRAM IDENT ON SPEC CARD IS WRONG
99505 INFORMTL THE EDB UPDATE OPTION HAS BEEN SELECTED
Sub-Location Functionality in PPS
10/24/2001 12:05 PM

99506 INFORMTL  THE EDB UPDATE OPTION WAS NOT SELECTED
99507 SEE OPER  UPDATE OPTION MUST BE BLANK OR “UPDATE”
99508 INFORMTL  INCOMPATIBLE DISTS PRODUCE WARNING MSGS, AND
                  UPDATE OCCURS
99509 INFORMTL  INCOMPATIBLE DISTS WILL PREVENT UPDATES
99510 INFORMTL  REPORT WILL BE SORTED BY DEPT NUMBER
99511 INFORMTL  REPORT WILL BE SORTED BY EMPLOYEE ID
99512 INFORMTL  REPORT WILL BE SORTED BY EMPLOYEE NAME
99513 SEE OPER  NO RECOGNIZED REPORT SEQUENCE PROVIDED
99514 INFORMTL  SPEC CARD LOOKS LIKE THIS:
99515 SEE OPER  AT LEAST ONE HOME DEPARTMENT HAS INVALID SUB-
                  LOCATION
99516 SEE OPER  DEFAULT HOME DEPARTMENT IS MISSING

Processing Group Table (PPPPGT)
A new processing group 13 needs to be added to the PGT. It should consist of the
single sequence 10 and point at consistency routine 9, and it should be triggered
by consistency routine 9.

System Parameter Table (PPPPRM)
A new parameter will be added to specify whether a campus is using sub-location
(1) or not (0). The initial value will be zero.

263 SUB-LOC? 0=OFF 1=ON  0

Routine Definition Table (PPPRTD)
An entry is needed to define new consistency edit routine 9 to point at PPEC009.

A37C009PPEC009

Data Elements to Screens Table (PPPDES)
Entries are needed to define DE 2009 (APPT-SUB-LOCATION) as appearing on
the EAPP, EAPC and ECFL screens. The field will be protected on all three
screens.

A39  EDB2009EAPPY
A39  EDB2009EAPCY
A39  EDB2009ECFLY

Bundle Highlighting Table (UC0BUH)
Entries for DE 2009 (APPT-SUB-LOCATION) may be needed for each bundle
which uses functions EAPC, EAPP, or other locally defined functions which
process appointment data. No Base transactions will be provided.
Data Dictionary/Help text
Standard data dictionary work is needed to define DE 2009 (APPT-SUB-LOCATION). Matching online Help text and anchoring will be needed for all the screens it appears on.
FORMS

Home Department Table (UPAY552)
Form UPAY552, which is used to add, change, and delete PPPHME entries, needs the new column HME_SUB_LOCATION inserted at the far right end of transaction type 1, specifying columns 76-77.

Rate Adjustment Pay Scale Table Worksheet (UPAY581)
Form UPAY581 needs a new column for sub-location inserted immediately to the right of Title Code, specifying columns 6-7, with all other columns shifted two positions to the right.

PPP995 SPEC CARD (UPAY905)
A new form needs to be provided which defines the fields needed to select processing options for new program PPP995. It must provide a card identifier, a choice between REPORT only or with UPDATE, a choice among report order options of Department, Employee Name, or Employee Identification. It must also provide a means to select treating conflicting distributions as just warnings, and allowing appointment sub-location to be updated regardless.
CICS SYSTEM DEFINITION (CSD)

Processing Program Table (PPT)

New program PPEC009 must be added to the CICS PPT.