Release 1817

Error Reports 1802/2014, 1929, 1988, 1989, 2138, 2140, 2151, 2153
EDB Maintenance Appt/Dist Derivations

Detail Design

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Introduction

Error Reports 1802/2014
ER 1802 and 2014 both note that PPPTITLE does not correctly derive a primary title when the first appointment encountered is future and the next appointment is current and has the same title code (the primary title is set to zero).

Error Report 1929
ER 1929 notes that DB2 errors from PPTCTUTL are not detected by calling programs USER08 or USER12.

Error Reports 1988, 1989
ER 1988 notes that PPEC009, which edits the title code/appointment representation code/appointment sub-location, is called before the appointment representation code has been set (by PPCB01, called by PPEM111). ER 1989 notes a similar issue for PPEC002, which edits the FLSA code (and other fields associated with the title code).

It was also noted during testing that the FLSA derivation behaved differently depending on whether sub-location was in use.

Error Report 2138
ER 2138 notes that Duration of Appointment values C and S should be added to the set of values that will derive an Appointment End Date of indefinite if the entered Appointment End Date is blank.

Error Report 2140
ER 2140 notes that the appointment without salary indicator can be changed by four programs, but the value must be set prior to the call to PPCB01.

Error Report 2151
ER 2151 notes that PPEM111 does not include the data element number for the Derived BELI (EDB 0375) when error 08-301 is generated.

Error Report 2153
ER 2153 notes that explicitly deleted distributions are not triggering a recalculation of appointment pay rate; CPLNKAP1 (the interface for PPAPTRAT) is not defined as EXTERNAL in USER12, where values are set for use by PPEM109/PPAPTRAT.
Overview of PPS Modifications

EDB File Maintenance Process

The error reports indicate that certain key derivations for appointments and distributions are not occurring in the correct order. The dependencies, in top-down order, are (derived values are **bold**):

- **the Appointment FLSA Status Indicator (EDB2005)** is dependent on the appointment Title Code (EDB2006), **Appointment Representation Code (EDB2031)**, and optional **Appointment Department Sub-location (EDB2009)**
- **the Appointment Representation Code** is dependent on the Employee Relations Code (EDB0160), Appointment Type Code (EDB2020), **Title Unit Code (EDB2029)**, and the **Appointment Without Salary Indicator (EDB2028)**
- **the Title Unit Code** is dependent on the Title Code
- **the Appointment Without Salary Indicator** is dependent on the Time Reporting Code (EDB2017), the Appointment Rate Code (EDB2015), and the Distribution of Service Codes (EDB2056) of the distributions associated with the appointment
- **the Appointment Department Sub-location** is dependent on the **Distribution Department Code (EDB2061)** of the distributions associated with the appointment
- **the Distribution Department Code** is dependent on the Full Accounting Unit (EDB2043) of the distribution

The derivations should happen in the order below:

A. the following can be derived from the Title Code (EDB2006) common information; currently done by PPEI002 and USER08:
   1. Personnel Program (EDB2007)
   2. Special Benefits Contribution/Retirement Code (EDB2021)
   3. Title Unit Code (EDB2029)
   4. Title Special Handling Code (EDB2030)
B. the following can be derived from the Full Accounting Unit (EDB2043); currently done by USER08 and USER12:
   1. Distribution Department Code (EDB2061)
C. the following can be derived from the Time Reporting Code (EDB2017), the Appointment Rate Code (EDB2015), and the Distribution of Service Codes (EDB2056) associated with an appointment; currently done by PPEI053, PPEI100, PPEI203, and USER12:
   1. Appointment Without Salary Indicator (EDB2028)
D. the following can be derived from the Employee Relations Code (DE0160), Appointment Type (EDB2020), the Title Unit Code (EDB2029), and the Appointment Without Salary Indicator (EDB2028); currently done by PPEM111/PPCB01:
   1. Appointment Representation Code (EDB2031); depends on A and C
E. the following can be derived from the Distribution Department Code (EDB2061); currently done by PPEM109/PPAPTDPT:
   1. Appointment Department Code (EDB2032); depends on B
   2. Appointment Department Sub-location (EDB2009); depends on the Appointment Department Code (EDB2032)
F. the following can be derived from the Personnel Program (EDB2007), Title Unit Code (EDB2029), Title Special Handling Code (EDB2030), Appointment Representation Code (EDB2031), Employment Service Credit Months (DE0719), and Prior Service Months (DE0146); currently done during Monthly Periodic Maintenance by PPEM109/PPAPTLAC if the automatic leave accrual code derivation Systems Parameter (069) is set to 1:
   1. Leave Accrual Code (EDB2018); depends on A and D

G. the following can be derived from the Title Code (EDB2006), the Appointment Representation Code (EDB2031), and the Appointment Department Sub-location (EDB2009); currently done by PPEI002 and USER08, and can be overridden via online function ECFL and via batch:
   1. Appointment FLSA Status Indicator (EDB2005); depends on D and E

To ensure that these values are derived in the correct order, EDB Maintenance will be changed to relocate most of the current derivation logic to a set of new programs; these programs will be called prior to any of the appointment and distribution consistency edits and implied maintenance.

A new program (PPEI404) will be written to derive title data and distribution department (items A and B).
A new program (PPEI405) will be written to derive the appointment WOS indicator (item C).
A new program (PPEI406) will be written to call PPCB01 to derive the Appointment Representation Code (item D), and the call to PPCB01 will be removed from PPEM111. PPEM111 also calls PPPBELI; the split is necessary to ensure that PPEM111/PPPBELI continues to run after PPCB01 and PPFICRET have run. PPFICRET is called by PPEI205, which occurs later in the edit/update process.
PPEM109 will continue to call PPAPTDPT to derive the Appointment Department Sub-location (item E) and PPAPTLAC (during Monthly Periodic Maintenance) to derive the Leave Accrual Code (item F).
A new program (PPEI407) will be written to derive the Appointment FLSA Status Indicator (item G).
The list below is the current Processing Group order for PPP080/USER08, with key programs noted:

- 001 PPEI300
- 002 (actions and PPEM009 (appt/dist changes on separations))
  
  USER08 derives personnel pgm and dist department (item B)
  
  - 025 PPEM109/PPAPTDPT – derives sub-location (item E)
- 003 (once, loops through all appts) PPEI203 – derives appt WOS ind (item C)
  
  - 013 (each appt) PPEC009 – edits sub-location (item E)
  
  USER08 derives personnel pgm (again), TUC, SHC, appt retirement (item A), and FLSA (item G)
- 004 (each appt) PPEC001 uses title code data (item A) and appt WOS ind (item C); PPEC002 uses title code data (item A), appt rep code (item D), and FLSA (item G)
  
  - 006 (each dist)
  
  - 007 (each appt)
- 005
- 008 PPEI205/PPFICRET
- 009
- 012
- 010
- 011 PPEM111/PPCB01/PPBELI – derives appt rep code (item D)
  
- 020
- 099
- 021

Processing group 025 (PPEM109) will be deleted (PPEM109 will be moved to processing group 003).

Processing group 003 will be modified:

- program PPEI203: remove
- new program PPEI404: add; derives appointment values from the title code common information and the distribution department code from the FAU
- new program PPEI405: add, derives the appointment WOS indicator
- new program PPEI406: add; calls PPCB01
- program PPEM109: add
  
  new program PPEI407: add; derives the FLSA code

Processing group 013 will be deleted.
The list below is the current Processing Group order for PPP120/USER12, with key programs noted. Groups 001, 020, and 021 are triggered for all employees, not just those with changes.

- 001 PPEI199
  - 003 (each appt) PPEI002 – derives personnel pgm (again), TUC, SHC, appt retirement (item A), and FLSA (item G)
    - 005 (each dist) PPEI053 – derives appt WOS ind (item C)
    - 006 (each appt) PPEI100 – derives appt WOS ind (item C)
- 007 PPEI205/PPFICRET
- 008
- 009 PPEM009 (appt/dist dels related to seps and hires/rehires)
- 010
- 011
  - 012 (each appt)
  - 013 (each dist)
- 002
- 020
- 021 PPEM109/PPAPTDPT – derives sub-location (item E), PPEM111/PPCB01/PPBELI – derives appt rep code (item D)

A new processing group (004) will be added to run after group 001 and before group 003. It will be run only for employees with changes. It will have the same items as the revised processing group 003 for PPP080/USER08.

Processing group 006 will be deleted.

PPP130 performs periodic maintenance on the EDB. During Monthly Periodic Maintenance, appointments and/or distributions may be deleted because their end dates are older than the purge date. The deletion of a distribution may affect derived data in the appointment. The Appointment Without Salary Indicator and the Appointment FLSA Status Indicator could change due to a deletion of a distribution, but are not currently re-derived during Monthly Periodic Maintenance. However, processing group 011 currently includes PPEM111. Since PPCB01 is now executed by new program PPEI406, PPEI406 will be added to processing group 011 to run prior to PPEM111.

Programs

New and Modified Programs

PPAPTDPT

PPAPTDPT is called by PPEM109 to derive appointment department. It also derives sub-location when the system parameter 263 that specifies that sub-location is in use has been turned on. PPAPTDPT will be modified to clear the distribution flags that indicate whether a DOS code is REG or REG-type.
PPEC001
PPEC001 performs basic consistency edits for an appointment. PPEC001 will be modified to use a new level-88 value in CPWSW88S to identify indefinite duration of appointment values, and the salaried and without-salary appointment edits will be relocated to new program PPEI405.

PPEC002
PPEC002 performs consistency edits on the title and related fields of an appointment. PPEC002 will be modified to remove the comparison of the appointment Personnel Program to the TCT Personnel Program value (the appointment value will have been set to the TCT value in PPEI404) and to remove the edit of the FLSA indicator (the indicator will have been set and edited by new program PPEI407).

PPEC050
PPEC050 performs consistency edits across all appointments. PPEC050 will be modified to include the collection of appointment pay schedule and leave accrual codes that are tested by PPEC050 (the collection had been done by PPEI203). It will also be modified to summarize appointment percent full time values that are tested by PPEC050 (the summarization had been done by USER08).

PPEC101
PPEC101 performs consistency edits and maintenance on retirement, FICA, and DCP codes. PPEC101 will be modified to include the collection of TCT retirement codes (type 1) that are tested by PPEC101 (the collection had been done by USER08).

PPEI002
PPEI002 performs consistency edits and maintenance on the title and related fields of an appointment. PPEI002 will be modified to remove the setting of TITLE_UNIT_CODE, APPT_SPCL_HNDLG, RETIREMENT_CODE, and PERSONNEL_PGM, and the editing and setting of APPT_FLSA_CODE. In addition, it will be modified to remove the comparison of the appointment Personnel Program to the TCT Personnel Program value (the appointment value will have been set to the TCT value in PPEI404) and to remove the edit of the FLSA code (the code will have been set and edited by new program PPEI406).

PPEI053
PPEI053 performs consistency edits and maintenance on additional distribution data. PPEI053 will be modified to remove the setting of APPT_WOS_IND.

PPEI404 (new)
PPEI404 will set appointment and distribution values that can be derived directly from entered values in the appointment or distribution. It will derive several values from a title’s common information and will derive the distribution department from the FAU; it will set the appointment end date to indefinite if it is blank and the duration of appointment value is any of several indefinite types.

Each appointment will be examined.
If the duration of appointment (EDB2004) is I, E, T, C, or S, and the appointment end date (EDB2003) was not entered (low date value), the appointment end date will be set to indefinite (high date value) (previously done by PPEI203).
If the title code (EDB2006) has changed, the following items will be taken from the TCT (PPTCTUTL, SET XTCL-READ-CHosen-TITLE TO TRUE):
  • TITLE_UNIT_CODE (EDB2029)
• APPT_SPCL_HNDLG (EDB2030)
• RETIREMENT_CODE (EDB2021)
• PERSONNEL_PGM (EDB2007) – can be entered, but derived value overrides

Each distribution of the appointment will be examined.
If the FAU (EDB2043) has changed, the following item will be taken from the Account/Fund Profile via PPFAU002:
• DIST_DEPT_CODE (EDB2061)

PPEI405 (new)

PPEI405 derives the appointment WOS indicator and performs consistency edits for salaried and without-salary appointments.
The appointment WOS indicator was previously set by four programs and edited by a fifth program. In order to preserve the existing processing, each appointment will

- receive a preliminary WOS indicator based on the time reporting code and the presence or absence of WOS distributions
- be edited for salaried or without-salary appointment attributes
- receive a final WOS indicator based on the presence of any paid distributions

It has been (and will continue to be) possible, therefore, for an appointment to have a time reporting code of W (without salary) and to be edited as a without-salary appointment, yet end up with a warning message and an appointment WOS indicator of N (not WOS) because the appointment has a paid distribution.

Each appointment will be examined for WOS-type distributions:

- The Description of Service (EDB2056) will be examined; if it is WOS-type (WOS, PDW), set a DISTR-WITHOUT-SALARY flag to true, otherwise set a DISTR-WITH-SALARY flag to true.

Do a preliminary setting of the APPT_WOS_IND:

- If TIME_REPT_CODE (EDB2017) = W, or RATE_CODE (EDB2015) is blank and there are only without-salary distributions (the DISTR-WITHOUT-SALARY flag is false, and the DISTR-WITH-SALARY flag is true), set APPT_WOS_IND (EDB2028) to Y; otherwise, set APPT_WOS_IND (EDB2028) to N.

If the appointment or any of its distributions has been changed:

- If the preliminary APPT_WOS_IND is N, do salaried appointment edits (these are existing edits from PPEC002):
  - FIXED_VAR_CODE must be F or V (08-019, salaried appointment must have fixed/variable code)
  - RATE_CODE must be A, H, or B (08-021, salaried appointment must have rate code)
  - PAY_SCHEDULE must be SM, MO, MA, or BW (08-026, salaried appointment must have pay schedule code)
  - TIME_REPT_CODE must be positive or exception time (08-027, salaried appointment must have a time code)
  - LEAVE_ACRUCODE must be valid if the installation does leave accrual (PRM 12 is 1 or 2) (08-028, salaried appointment must have a leave accrual code)

- Otherwise, do without-salary appointment edits (these are existing edits from PPEC002):
  - PAY_RATE must be zero (08-030, appt without salary should not have annual/hrly rate)
  - RATE_CODE must be spaces (08-031, appt without salary should not have rate code)
  - LEAVE_ACRUCODE must be N (08-032, appt without salary should have leave code of N)
If the preliminary APPT_WOS_IND is Y and there are salaried distributions (DISTR-WITH-SALARY flag is true), set the APPT_WOS_IND (EDB2028) to N and issue message 08-029, no salaried distr may appear in a WOS appointment. If the appointment add/delete/change code has not yet been updated, set APPT_ADC_CODE (EDB2022) to C and mark it as updated.

PPEI406 (new)

PPEI406 will call PPCB01 to set all the collective bargaining codes for the employee. The call to PPCB01 will continue to set the APPT_REP_CODE (EDB2031), among other collective bargaining codes; the call was removed from PPEM111.

PPEI407 (new)

PPEI407 will set the FLSA values for all appointments.

The APPT_FLSA_IND (EDB2005), which can be entered via Online EDB Entry/Update function ECFL, requires TITLE_CODE (EDB2006), APPT_REP_CODE (EDB2031), and APPT_SUB_LOCATION (EDB2009) to call PPTCTUTL (READ CHOSEN MEDIUM) to retrieve the title code’s FLSA value.

Possible FLSA errors:

- if the Title Code and Appointment Representation Code combination aren’t on the TCT (existing message 08085 (change text to reflect actual condition) and new message 12085) – this is an employee reject condition
- if FLSA was changed to blank, default to XTCL-FLSA-STATUS-CODE (existing message 08047) – blank is not allowed, and will be overridden by TCT value
- if FLSA was entered (check with DLSEARCH) and does not match XTCL-FLSA-STATUS-CODE and the entered value is ‘1’/exempt (existing messages 08048,12048) – this is a warning about changing an appointment from nonexempt to exempt.

PPEM111

PPEM111 performs consistency edits and maintenance to re-derive the Benefits Eligibility Level Indicator (BELI) and related fields. PPEM111 will be modified to remove the call to PPCB01, which will now be done by new program PPEI406.

PPPTITLE

PPPTITLE derives the employee's primary title code and/or job group identifier. PPPTITLE will be modified to initialize counters when a current appointment is found and the previous appointments were future.

USER08

USER08 is the driver for the EDB maintenance edit process. USER08 will be modified to remove the setting of DIST_DEPT_CODE and APPT_FLSA_CODE. Unused WORKING-STORAGE items will be removed. The PPAPTRAT DOS table will be loaded; it is copied to the DOS table used by PPAPTDPT. PPTCTUTL will be called during initialization to ensure there are no DB2 abends. Some data collection related to appointments will be moved to the programs that test the collected data. Processing Groups 025 and 013 will be removed.

USER12

USER12 is the driver for the EDB maintenance update process. USER12 will be modified to remove the setting of DIST_DEPT_CODE. Unused WORKING-STORAGE items will be removed. PPTCTUTL will be called during initialization to ensure there are no DB2 abends. The adjustment of the appointment WOS indicator will be removed. Processing Group 004 will be added (to be run for all employees after Processing Group 001 and before Processing Group 003), and Processing Group 006 will be removed. The PPCB01 interface areas will be initialized for every employee (PPCB01 runs only for changed employee).
Copy Members

CPWSDOSC
CPWSDOSC defines several DOS constants. It will be modified to include a level-88 entry for without-salary DOS codes (currently WOS and PDW).

CPWSEMPA
CPWSEMPA defines an EXTERNAL work area for EDB edit/update. It will be modified to replace items that are no longer global with FILLER.

CPWSW88S
CPWSW88S contains 88-levels for several of the EDB data elements. It will be modified to include a single entry for all indefinite duration of appointment values.

Control Table Updates

System Messages Table
The following messages will be changed:

- 08-085 (new text: UNABLE TO DERIVE FLSA - NO TCT DATA FOR TITLE AND REP CODE) – items to be displayed as references; severity level is currently ‘7’ (employee reject) for online and batch
- 08-029 (NO SALARIED DISTR MAY APPEAR IN A “WOS” APPOINTMENT) – change severity from ‘3’ (warning) to ‘4’ (data override)
- 12-060 (MISSING REQUIRED MINIMUM APPOINTMENT DATA) – change severity from ‘7’ (employee eject) to ‘4’ (data override); the employee is not actually rejected

The following messages will be added:

- 12-085 (UNABLE TO DERIVE FLSA - NO TCT DATA FOR TITLE AND REP CODE) – severity level of ‘7’ (Employee Reject) for online and batch
- IM-405 (IMPLIED MAINT EDIT 405 FAILED (WOS) – severity level of ‘7’ (employee reject for online and batch
- IM-407 (IMPLIED MAINT EDIT 407 FAILED (FLSA) – severity level of ‘7’ (employee reject) for online and batch

Data Element Table
The following EDB data elements will be modified:

- Appointment End Date (EDB2003), to remove trigger I203
- Duration of Employment (EDB2004), to remove trigger I203
- Time Reporting Code (EDB2017), to remove trigger I203
- Title Code (EDB2006), to remove trigger C009
- Appointment Department Sub-location (EDB2009), to remove trigger C009

Processing Group Table
- Processing group 025 for Program ID 08 will be removed (it executes PPEM109 unconditionally)
• Processing group 013 for Program ID 08 will be removed (it executes PPEC009 for trigger C009)
• Processing group 003 for Program ID 08 will be removed (it executes PPEI203 unconditionally)
• PPEI404 will be executed in Program ID 08, Processing Group 003, Processing Sequence 0020. PPEI404 will be executed unconditionally.
• PPEI405 will be executed in Program ID 08, Processing Group 003, Processing Sequence 0030. PPEI405 will be executed unconditionally.
• PPEI406 will be executed in Program ID 08, Processing Group 003, Processing Sequence 0040. PPEI406 will be executed unconditionally.
• PPEI407 will be executed in Program ID 08, Processing Group 003, Processing Sequence 0050. PPEI407 will be executed unconditionally.
• PPEI407 will be executed in Program ID 08, Processing Group 003, Processing Sequence 0060. PPEI407 will be executed unconditionally.
• Processing group 006 for Program ID 12 will be removed (it executes PPEI100 unconditionally)
• PPEI404 will be executed in Program ID 12, Processing Group 004, Processing Sequence 0020. PPEI404 will be executed unconditionally.
• PPEI405 will be executed in Program ID 12, Processing Group 004, Processing Sequence 0030. PPEI405 will be executed unconditionally.
• PPEI406 will be executed in Program ID 12, Processing Group 004, Processing Sequence 0040. PPEI406 will be executed unconditionally.
• PPEI407 will be executed in Program ID 12, Processing Group 004, Processing Sequence 0050. PPEI407 will be executed unconditionally.
• PPEI407 will be executed in Program ID 12, Processing Group 004, Processing Sequence 0060. PPEI407 will be executed unconditionally.
• PPEI406 will be executed in Program ID 013 Processing Group 011, Processing Sequence 1106. PPEI406 will be executed unconditionally.

Routine Definition Table
• PPEC009 will be removed
• PPEI100 will be removed
• PPEI203 will be removed
• PPEI404 will be added (I 404)
• PPEI405 will be added (I 405)
• PPEI406 will be added (I 406)
• PPEI407 will be added (I 407)
Obsolete Objects

The following objects will be made obsolete in PPS

**Copy Members**
- CPWS403B
- CPWSSAVB
- CPWSXWSP

**Programs**
- PPEC009
- PPEI100
- PPEI203