

Release 1487

**Service Request 14888
ScholarShare**

Detail Design

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Introduction

The University of California wishes to facilitate participation of University employees in investments towards educational savings under IRC 529 Plans. As such, the University recently adopted a policy to allow employees to enroll in the Golden State ScholarShare Trust (ScholarShare) college savings program, established by the State of California, by using the University's payroll deduction facility.

ScholarShare is currently administered by Teachers Insurance and Annuity Association College Retirement Equities Fund (TIAA-CREF) Tuition Financing, Inc. Enrollment in ScholarShare will be processed by TIAA-CREF. A TIAA-CREF file will transmit a record of enrollment to UCOP. The TIAA-CREF file will be processed at UCOP twice a month (initially) and the data will be blended in with the IVR and Web sourced data that is processed daily in PPP130.

The TIAA-CREF data will consist of two parts.

Deposits of ScholarShare deductions to TIAA-CREF will be processed on the existing Automated Clearing House (ACH) file. One part of the TIAA-CREF data will define the employee's account number, account type and bank transit number. This data will be stored on a new Employee Direct Deposit GTN table. Initially the table will only contain ScholarShare data, but it is intended to be used for other Direct Deposit GTN's in the future. The data on the Employee Direct Deposit GTN table will be used to write a batch of ScholarShare deposit records to the ACH file.

The second part of the TIAA-CREF data will define the deduction amount. This data will be stored as a G-Balance on the PPPDBL table. This data will be used in Computes to take the deductions.

Initially there will be no online access to the new Employee Direct Deposit GTN table data. Existing online functions will have access to the G-Balance for update, and G-Balance and Y-Balance for inquiry.

Differences from Requirements

1. The Requirements refer to creating X1 transactions from TIAA_CREF data for EDB update. The G-Balance will be on an X1 transaction. The other data, GTN Number, Transit Number, etc. will use a new transaction type DG. See Attachment A for transaction definitions.
2. The Requirements state that the ScholarShare GTN deduction should be displayed on the IDED, IGTN and EDED screens. The IDED Indicator must be Y on the GTN table to allow its appearance on the IDED screen. This will in turn include the G-Balance on the EDED screen for update. Access to the EDED screen can be controlled locally via standard RACF function control.
3. The Requirements requested a mechanism for generating reports of employee participation in ScholarShare. Standard PPP490 reporting will provide this mechanism. A new ScholarShare specific report will **not** be created.
4. The Requirements do not request inclusion of ScholarShare data on the Sybase tables. However, the G-Balance and Y-Balance data will be included in the IVR deduction file to provide a method for identifying current enrollment during UCOP TIAA-CREF file processing.
5. The Requirements do not define the contents of a Change record, i.e. will it contain all data or just change fields. Update logic will only process non-blank fields to handle both formats.
6. The Requirements do not define the method by which TIAA-CREF signals a Cancellation. Depending on the final definition, and what the UCOP process does, additional data overrides may be needed in the daily process. Or, alternatively, another periodic maintenance module (monthly? yearly?) may be required to delete Direct Deposit data when a ScholarShare G-Balance is not present.
7. The Requirements do not address history data. Per PPS standards, the modification to the Gross-to-Net Table will be carried on to the Gross-to-Net History table. No EDB data will be added to the HDB.
8. The message associated with rejecting G-Balances when there is no employee Direct Deposit GTN has been upgraded in severity to Transaction Reject in batch and Employee reject online.

TIAA-CREF Processing

The TIAA-CREF file processing at UCOP will not be a part of the released Base PPS.

The TIAA-CREF enrollment file will be processed at UCOP and transactions concatenated to the existing IVR/Web sourced data that is created for FTP transmittal to campuses for PPS daily special processing.

The TIAA-CREF file will be a change file, i.e. a record will only be sent when an employee's ScholarShare data changes. An Add record must contain all necessary data, i.e. Employee ID, GTN Number, Bank Transit Number and Bank Account Number. The contents of a Change or Delete (cancel) record are not yet defined.

PPIIVR will be modified to include the ScholarShare G-Balance and Y-Balance on the Deduction file. This Sybase data will be accessed to determine whether a TIAA-CREF record is for a new or existing employee. If new, a set of Add transactions will be sent to PPS. If the employee is already enrolled, and the TIAA-CREF deduction amount is zero, a set of Delete transactions will be sent to PPS. If the employee is already enrolled, and the TIAA-CREF deduction amount is greater than zero, a set of Change transactions will be sent to PPS.

Two transactions will be created for processing by PPP130 via the PPPEST file, i.e. the data read during the daily special process from DD ESTTRANS and loaded into the PPPEST table.

An X1 transaction will be created to pass the ScholarShare G-Balance. The TIAA-CREF record will provide the Employee ID, date (from the file Header), GTN Number and G-Balance (dollar amount). If the dollar amount is zero, an asterisk will be passed in the amount field of the X1 transaction. This will only delete the G-Balance and stop deductions as of the next Compute.

A DG transaction will be created to pass the Employee Direct Deposit GTN data for update of the new PPPDDG table. The TIAA-CREF record will provide the Employee ID, date (from the file Header), GTN Number, Bank Transit Number plus check digit, and Account Number. The ADC Code will be generated during the UCOP process. The Account Type will default to C. The SPB Bank Key will be blank.

DG Add records will require an "A" ADC Code and all other data fields except the SPB Bank key.

DG Delete records will require a "D" ADC Code and the GTN Number. All other data will be ignored.

DG Change records will require a "C" ADC Code and the GTN Number. Any other non-blank fields will be updated. An asterisk will cause initialization of the field, but this is not acceptable for most ScholarShare fields, so the transaction will be rejected. This may differ for future DG transactions.

See Attachment A for the transaction layouts as they will be sent to PPS from the TIAA-CREF file.

DDL Members for DB2 Changes

Gross-to-Net Table (PPPGTN)

A new column will be added to the PPPGTN table to contain the Direct Deposit GTN Indicator.

```
GTN_DIR_DEP_IND    CHAR(01) NOT NULL WITH DEFAULT,
```

The new column will be added to the standard DDL members defining the table and one view:

- TBGTN00C.
- PPPVZGTN.

For campuses which alter tables rather than re-create them, an ALTER TABLE member will be created to add the new column.

- TBGTN05A.

Gross-to-Net History Table (PPPGTNH)

A new column will be added to the PPPGTNH table to contain the Direct Deposit GTN Indicator.

```
GTN_DIR_DEP_IND    CHAR(01) NOT NULL WITH DEFAULT,
```

The new column will be added to the standard DDL members defining the table and one view:

- TBGTNH0C.
- PPPVGTNH.

For campuses which alter tables rather than re-create them, an ALTER TABLE member will be created to add the new column.

- TBGTNH5A.

Employee Direct Deposit GTN Table (PPPDDG) (new)

A new table will be added to the PPPEDB database that will contain data for Employee deductions which are transmitted via the ACH file, i.e. the "Surepay" file. Initially only ScholarShare GTN's will be included on this table.

The standard DDL members defining the tablespace, table, index and three views for the PPPDDG table will be created.

- TSDDG00C
- TBDDG00C
- IXDDG00C
- PPPVDDG1
- PPPVDDG2
- PPPVZDDG

```
CREATE TABLE PPPDDG
  (EMPLOYEE_ID      CHAR(9)  NOT NULL,
   DDG_GTN_NUMBER   CHAR(3)  NOT NULL,
   DDG_ADC_CODE     CHAR(1)  NOT NULL WITH DEFAULT,
   DDG_TRANSIT_NUM  CHAR(9)  NOT NULL WITH DEFAULT,
```

```
        DDG_ACCT_NUM          CHAR(17) NOT NULL WITH DEFAULT,  
        DDG_ACCT_TYPE        CHAR(1)  NOT NULL WITH DEFAULT,  
        DDG_SPB_BANK-KEY     CHAR(5)  NOT NULL WITH DEFAULT,  
PRIMARY KEY (EMPLOYEE_ID,  
            DDG_GTN_NUMBER)  
FOREIGN KEY (EMPLOYEE_ID) REFERENCES PPPPER  
            ON DELETE RESTRICT))  
IN PPEPDB.PPPDDG          ;
```

Includes

Gross-to-Net Table (PPPGTN)

The Include member that defines the working storage for the view of the PPPGTN table will be modified to contain the new GTN Direct Deposit Indicator.

- PPPVZGTN

```
10 GTN-DIR-DEP-IND    PIC X(1).  
  
    ,GTN_DIR_DEP_IND    CHAR(1) NOT NULL
```

Gross-to-Net History Table (PPPGTNH)

The Include member that defines the working storage for the view of the PPPGTNH table will be modified to contain the new GTN Direct Deposit Indicator.

- PPPVGTNH

```
10 GTN-DIR-DEP-IND    PIC X(1).  
  
    ,GTN_DIR_DEP_IND    CHAR(1) NOT NULL
```

Employee Direct Deposit GTN Table (PPPDDG) (new)

The three standard Includes matching the three standard Views will be created for the new PPPDDG table.

PPPVDDG1

```
*01  PPPVDDG1_DDG.  
    10 EMPLOYEE-ID          PIC X(9).  
    10 DDG-GTN-NUMBER       PIC X(3).  
    10 DDG-ADC-CODE         PIC X(1).  
    10 DDG-TRANSIT-NUM     PIC X(9).  
    10 DDG-ACCT-NUM        PIC X(17).  
    10 DDG-ACCT-TYPE       PIC X(1).  
    10 DDG-SPB-BANK-KEY    PIC X(5).  
*****  
* THE NUMBER OF COLUMNS DESCRIBED BY THIS DECLARATION IS 7 *  
*****  
EXEC SQL DECLARE PPPVDDG1_DDG TABLE  
  ( EMPLOYEE_IS          CHAR(9) NOT NULL,  
    DDG_GTN_NUMBER      CHAR(3) NOT NULL,  
    DDG_ADC_CODE        CHAR(1) NOT NULL WITH DEFAULT,  
    DDG_TRANSIT_NUM     CHAR(9) NOT NULL WITH DEFAULT,  
    DDG_ACCT_NUM        CHAR(17) NOT NULL WITH DEFAULT,  
    DDG_ACCT_TYPE       CHAR(1) NOT NULL WITH DEFAULT,  
    DDG_SPB_BANK_KEY    CHAR(5) NOT NULL WITH DEFAULT,  
  )END-EXEC.
```

PPPVDDG2

```
*01  PPPVDDG2_DDG.  
    10  EMPLOYEE-ID          PIC X(9).  
    10  DDG-GTN-NUMBER      PIC X(3).  
    10  DDG-ADC-CODE        PIC X(1).  
    10  DDG-TRANSIT-NUM     PIC X(9).  
    10  DDG-ACCT-NUM        PIC X(17).  
    10  DDG-ACCT-TYPE       PIC X(1).  
    10  DDG-SPB-BANK-KEY    PIC X(5).  
*****  
* THE NUMBER OF COLUMNS DESCRIBED BY THIS DECLARATION IS 7 *  
*****  
EXEC SQL DECLARE PPPVDDG1_DDG TABLE  
( EMPLOYEE_IS          CHAR(9)  NOT NULL,  
  DDG_GTN_NUMBER      CHAR(3)  NOT NULL,  
  DDG_ADC_CODE        CHAR(1)  NOT NULL WITH DEFAULT,  
  DDG_TRANSIT_NUM     CHAR(9)  NOT NULL WITH DEFAULT,  
  DDG_ACCT_NUM        CHAR(17) NOT NULL WITH DEFAULT,  
  DDG_ACCT_TYPE       CHAR(1)  NOT NULL WITH DEFAULT,  
  DDG_SPB_BANK-KEY    CHAR(5)  NOT NULL WITH DEFAULT,  
)END-EXEC.
```

PPPVZDDG

```
*01  PPPVZDDG_DDG.  
    10  EMPLOYEE-ID          PIC X(9).  
    10  DDG-GTN-NUMBER      PIC X(3).  
    10  DDG-ADC-CODE        PIC X(1).  
    10  DDG-TRANSIT-NUM     PIC X(9).  
    10  DDG-ACCT-NUM        PIC X(17).  
    10  DDG-ACCT-TYPE       PIC X(1).  
    10  DDG-SPB-BANK-KEY    PIC X(5).  
*****  
* THE NUMBER OF COLUMNS DESCRIBED BY THIS DECLARATION IS 7 *  
*****  
EXEC SQL DECLARE PPPVDDG1_DDG TABLE  
( EMPLOYEE_IS          CHAR(9)  NOT NULL,  
  DDG_GTN_NUMBER      CHAR(3)  NOT NULL,  
  DDG_ADC_CODE        CHAR(1)  NOT NULL WITH DEFAULT,  
  DDG_TRANSIT_NUM     CHAR(9)  NOT NULL WITH DEFAULT,  
  DDG_ACCT_NUM        CHAR(17) NOT NULL WITH DEFAULT,  
  DDG_ACCT_TYPE       CHAR(1)  NOT NULL WITH DEFAULT,  
  DDG_SPB_BANK-KEY    CHAR(5)  NOT NULL WITH DEFAULT,  
)END-EXEC.
```

Copymembers

CPCTGTNI

CPCTGTNI defines working storage for internal work transaction for Gross-to-Net table updates. The new Direct Deposit GTN Indicator field will be added.

```
05 GTNI-DIR-DEP-IND          PIC X(1).
```

CPLNKDDG (new)

A standard copymember CPLNKDDG will be created to define linkage for calls to new program PPDDGUTL.

```
*COPYID=CPLNKDDG
*01 PPDDGUTL-INTERFACE.
    05 PPDDGUTL-ERROR-SW      PICTURE X(1).
    88 PPDDGUTL-ERROR        VALUE 'Y'.
    05 PPDDGUTL-DDG-FOUND-SW  PICTURE X(1).
    88 PPDDGUTL-DDG-FOUND    VALUE 'Y'.
    05 PPDDGUTL-EMPLOYEE-ID   PICTURE X(9).
```

CPWSEDDG (new)

A standard (for multiple occurrence tables) copymember CPWSEDDG will be created to define working storage for an array of PPPDDG rows for a single Employee ID. The OCCURS value must match IDC-MAX-NO-DDG in copymembers CPWSXIC2 and CPWSXIDC.

```
*COPYID=CPWSEDDG
*01 DDG-DATA-ARRAY.
    05 EDDG-DIR-DEP-DATA      OCCURS 10.
    10 EDDG-OCCURRENCE-KEY.
        15 EDDG-GTN-NUMBER    PIC X(3).
    10 FILLER.
        15 EDDG-ADC-CODE      PIC X(1).
        15 EDDG-TRANSIT-NUM   PIC X(9).
        15 EDDG-ACCT-NUM      PIC X(17).
        15 EDDG-ACCT-TYPE     PIC X(1).
        15 EDDG-SPB-BANK-KEY  PIC X(5).
```

CPWSGTNH

CPWSGTNH defines working storage for a DB2 Gross-to-Net History table row. The new Direct Deposit GTN Indicator field will be added.

```
10 GTN-DIR-DEP-IND          PIC X(1).
```

CPWSRDDG (new)

A standard copymember CPWSRDDG will be created to define working storage for a single PPPDDG row.

```
*COPYID=CPWSRDDG
*01 DDG-ROW.
    10 EMPLOYEE-ID          PIC X(9).
    10 DDG-GTN-NUMBER       PIC X(3).
```

```

10 DDG-ADC-CODE          PIC X(1).
10 DDG-TRANSIT-NUM      PIC X(9).
10 DDG-ACCT-NUM        PIC X(17).
10 DDG-ACCT-TYPE       PIC X(1).
10 DDG-SPB-BANK-KEY    PIC X(5).
  
```

CPWSXESR

CPWSXESR defines working storage for various transaction error texts issued by Web/IVR processes. It will be modified to format rejected DG data for display.

```

02 XESR-REJECT-DG-DATA-TEXT.
--      DIRECT DEPOSIT GTN DATA (PPPDDG TABLE)
05 XESR-REJECT-DG-GTN-LAB          PIC X(09)
                                     VALUE 'DDG GTN: '.
05 XESR-REJECT-DG-GTN              PIC X(03).
05 FILLER                          PIC X(03) VALUE SPACES.
05 XESR-REJECT-DG-TRANS-LAB        PIC X(09)
                                     VALUE 'TRANSIT: '.
05 XESR-REJECT-DG-TRANSIT          PIC X(09).
05 FILLER                          PIC X(03) VALUE SPACES.
05 XESR-REJECT-DG-ACCT-NUM-LAB     PIC X(10)
                                     VALUE 'ACCT NUM: '.
05 XESR-REJECT-DG-ACCT-NUM         PIC X(17).
05 FILLER                          PIC X(03) VALUE SPACES.
05 XESR-REJECT-DG-ACCT-TYP-LAB     PIC X(11)
                                     VALUE 'ACCT TYPE: '.
05 XESR-REJECT-DG-ACCT-TYPE        PIC X(01).
05 FILLER                          PIC X(54) VALUE SPACES.
  
```

CPWSXESS

CPWSXESS defines working storage for various transaction counts and switches used by Web/IVR processes. It will be modified to include counts for DG data processing. The counts will be displayed on the PPESTRP2 report.

```

10 XESS-DG-TTL-READ      PIC 9(06).
10 XESS-DG-TTL-ADD       PIC 9(06).
05 XESS-TTL-DG-RECS-READ PIC 9(6).
05 XESS-TTL-DG-RECS-ADDED PIC 9(6).
  
```

CPWSXEST

CPWSXEST defines working storage for various transactions passed by Web/IVR processes. It will be modified to include an X1 transaction which will contain ScholarShare Deduction Amount (GTN 600 G-Balance), and a DG transaction containing Employee Direct Deposit GTN data.

```

05 XEST-X1-DDG-TRANS-RECORD          REDEFINES
XEST-TRANS-RECORD.
10 FILLER                            PIC X(18).
10 XEST-X1-DDG-ELEMNO-G              PIC X(05).
10 XEST-X1-DDG-AMT-G                 PIC X(07).
10 FILLER                            PIC X(72).
  
```

```
05  XEST-DG-DIR-DEP-TRANS-RECORD      REDEFINES
    XEST-TRANS-RECORD.
    10  FILLER                          PIC X(18).
    10  XEST-DG-DIR-DEP-GTN             PIC X(03).
    10  XEST-DG-DIR-DEP-ADC-CODE       PIC X(01).
    10  XEST-DG-DIR-DEP-TRANSIT       PIC X(09).
    10  XEST-DG-DIR-DEP-ACCT-NUM      PIC X(17).
    10  XEST-DG-DIR-DEP-ACCT-TYPE     PIC X(01).
    10  XEST-DG-DIR-DEP-BANK-KEY      PIC X(05).
    10  FILLER                          PIC X(48).
```

CPWSXGTA

CPWSXGTA defines working storage for an array of Gross-to-Net table records indexed by GTN Number. The new Direct Deposit GTN Indicator field will be added.

```
10  XGTA-DIR-DEP-IND    PIC X(1).
```

CPWSXGTN

CPWSXGTN defines working storage for a Gross-to-Net table record. The new Direct Deposit GTN Indicator field will be added.

```
10  XGTN-DIR-DEP-IND    PIC X(1).
```

CPWSXIVR

CPWSXIVR defines working storage for a IVR active deductions. It places GTN's in a plan or group, and provides mapping between locally used GTN's and standard IVR GTN's. The ScholarShare GTN 600 will be added to Plan 9, an array sizes increased accordingly. This, along with modifications to PPIIVR, will cause GTN 600 data to be included on the IVR Deduction files.

```
10  FILLER                      PIC X(07) VALUE '9600600'.
```

CPWSXNGO

CPWSXNGO contains data defining GTN's which are currently included on the ACH Surepay file. Processing for the GTN's defined in XNGO-GTN-IN-ACH-LIST will be modified to include TIAA-CREF organization data and the ScholarShare GTN 600.

GTN 600 will be added to the 88 value defining Direct Deposit GTN's.

```
05  XNGO-GTN-LIST                PIC 9(03).
    88  XNGO-GTN-IN-NACHA-LIST  VALUES
        217 246 247 278 279 380 387 600 718 719 720 721.
```

A new 88 value will be created which will define Direct Deposit GTN's which also exist on the new PPPDDG table. This will direct program PPP430 to obtain transit and account data for ScholarShare ACH records from PPPDDG employee data.

```
88  XNGO-GTN-ON-DDG-TABLE      VALUES      600.
```

TIAA-CREF will be defined as not requiring a pre-note. The other pre-note fields will be spaces or zeroes.

The Account Number, Check Digit and Bank Transit Number will be zeroes or spaces for ScholarShare as that data will be obtained from the new PPPDDG table.

It will be defined as not accepting negative amounts.

It will be defined as not requiring an addenda record.

The format routine will be defined as 04, a new format routine which will be added to PPP430.

CPWSXSPN

CPWSXSPN defines the ACH file records: header, trailer, employee detail and Fidelity addenda records. TIAA-CREF does not require an addenda record. The standard batch header and detail formats will be used. CPWSXSPN will **not** be modified.

EDB Fetch Complex

Several copymembers must be modified whenever a new table is added to the EDB fetch complex or a new set transaction is established. In this case both are occurring. The following copymembers will be modified for the addition of the new multiple occurrence PPPDDG table.

CPWSEPTR

CPWSEPTR defines pointers used for request arrays used in the EDB fetch complex. The OCCURS for table count will be increased to +35 for the additional PPPDDG table.

CPWSXICE

CPWSXICE defines various constants used in the EDB fetch complex. PPEDBUPD-NO-TBL-SELECTIONS will be increased to +35 in keeping with the CPWSEPTR modification for the additional PPPDDG table.

Tables capable of multiple entries per single Employee ID are also defined in CPWSXICE. It will be modified to add PPPDDG to the array of multiple row tables.

A “float” array defines table data elements that can have multiple occurrences. The data elements on the PPPDDG table will be added to the “float” list, and the array size increased appropriately.

CPWSXIC2

CPWSXIC2 defines various constants used in the EDB fetch complex. IDC-MAX-NO-DDG will be added to set the maximum number of PPPDDG rows for an employee to +10. If more GTN's are installed for PPPDDG use this will need to be increased, however the number should be kept low to limit unneeded array processing.

CPWSXIDC

CPWSXIDC defines various constants used in the EDB fetch complex. IDC-MAX-NO-DDG will be added to set the maximum number of PPPDDG rows for an employee to +10. If more GTN's are installed for PPPDDG use this will need to be increased, however the number should be kept low to limit unneeded array processing.

CPWSXIDC contains a count of unique card types, i.e. transaction codes, on the PPPDET table. MAX-CARD-TYPES will be increased to +143 for the additional DG card type.

CPWSXIDC also contains definitions of set transactions, included required key data and all related fields. The new DG transaction's data elements will be added to the set transaction array, and the array size increased appropriately.

CPWSXTBI

CPWSXTBI defines an array of table change indicators. The OCCURS for TBL-IND will be increased to +35 in keeping with the CPWSEPTR modification for the additional PPPDDG table.

Programs

PPAPEUFE

PPAPEUFE is the online EDB Update “Final Edit” processor. It manipulates current rows/arrays and prior held values of rows/arrays. The array processing will be modified to support the new PPPFCB table.

PPAPEULF

PPAPEULF is the online EDB Update “Logical Functions” processor. It manipulates current rows/arrays and prior held values of rows/arrays. The array processing will be modified to support the new PPPFCB table.

PPAPEUPU

PPAPEUPU is the online EDB Update “Pre-Update” processor. It manipulates current rows/arrays and prior held values of rows/arrays. The array processing will be modified to support the new PPPFCB table.

PPAPEUSR

PPAPEUSR is the online EDB Update “Store/Restore” processor. It writes and reads TSQ’s for current rows/arrays and prior held values of rows/arrays. The array processing will be modified to support the new PPPFCB table.

PPCTGTNE

PPCTGTNE performs transaction data edits for updates of the Gross-to-Net Table. It will be modified to edit the new Direct Deposit GTN Indicator field. The allowed values will be blank, ‘N’ and ‘Y’. All other values will result in a transaction rejection.

PPCTGTNU

PPCTGTNU performs table updates of the Gross-to-Net Table. It will be modified to update or insert the new Direct Deposit GTN Indicator field.

PPCTR02

PPCTR02 creates the report of the Gross-to-Net Table. It will be modified to display the new Direct Deposit GTN Indicator field. See Attachment B for a report sample.

PPCTT02

PPCTT02 creates the internal work transaction from the input transactions for updates of the Gross-to-Net Table. It will be modified to process the new Direct Deposit GTN Indicator field.

PPDDGFET (new)

The standard fetch complex PPDDGFET module will be created for the PPPDDG table. This module will select the appropriate employee’s PPPDDG data by data element number.

PPDDGUPD (new)

The standard fetch complex PPDDGUPD module will be created for the PPPDDG table. This module will use the data element number on an Employee Change record to move data to the appropriate DB2 column of the working storage for PPPDDG rows.

PPDDGUTL (new)

The standard fetch complex PPDDGUTL module will be created for the PPPDDG table. This module will perform DB2 selects from the PPPDDG table, using the Employee ID key.

PPDDGUTW (new)

The standard fetch complex PPDDGUTW module will be created for the PPPDDG table. This module will perform DB2 inserts, updates, or deletes of the PPPDDG table, using the Employee ID key.

PPEC146 (new)

A new Consistency Edit module, modeled on the Dependents module PPEC142, will be created to enforce ScholarShare edits during Daily IVR/Web, and now ScholarShare, EDB Maintenance. The only edit that will be performed will be for consistency between the ADC Code and current data. An Add transaction will be rejected if the data key already exists. A Change or Delete transaction will be rejected if the key data does not exist. The G-Balance associated with a rejected DG transaction will be rolled back to the prior value.

PPEC717 (new)

A new Set Transaction Consistency Edit module will be created for explicit EDB Update. Initially, it is not expected that ScholarShare updates will be processed via EDB Update, and since no screens are provided for this, the only path will be a DG transaction through batch update. However, this provides a path for future other Direct Deposit GTN's, and, possibly, very careful updates of ScholarShare data.

Like PPEC146 it will enforce consistency between the ADC Code and current data. An Add transaction will be rejected if the data key already exists. A Change or Delete transaction will be rejected if the key data does not exist.

It will also check the Direct Deposit Indicator on the GTN Table for any DG transaction GTN. If the Direct Deposit Indicator is not 'Y' the transaction will be rejected.

Very minimal edits will be performed on the resulting table array fields to ensure that there is data in all the table fields with the exception of the SPB Bank Key. It will only check for SPACES. It will not ensure that the data is valid for TIAA-CREF purposes. When future DG transactions are added, the edits in this module will need to be expanded.

The DG transaction will be defined as a Set Transaction. This means that if any individual data field fails to pass an edit, all the related fields on the transaction will be rejected as well.

PPEDBRTI

PPEDBRTI formats the PPEDBFET chain-indexes for the non-initial request call. It will be modified to bypass reordering the multiple occurrence PPPDDG data elements.

PPEG600 (new)

A new GTN Consistency Edit module PPEG600 will be created. It will be triggered by changes to a GTN 600 entry on the PPPDBL table or any data element on the new PPPDDG table. If the current G-Balance amount is greater than zero, the GTN Number will be checked to determine if it is a Direct deposit GTN. This will be done by using

the 88 value XNGO-GTN-ON-DDG-TABLE added to copymember CPWSXNGO. If it is a Direct Deposit GTN, the External array of Direct Deposit GTN table data will be accessed for an entry for the Employee ID and the GTN Number. If an entry exists, the G-Balance will be allowed. If an entry does not exist, a message will be issued and the current G-Balance will be reset to zero. PPEG600 will be placed on the Processing Group Table to execute after PPEC717 so that any deletion of PPPDDG data without explicit zeroing of the G-Balance will result in deletion of the G-Balance anyway. Because of this condition, the G-Balance is zeroed out rather than rolling back in the prior amount.

PPESTEDB

PPESTEDB is executed during the PPP130 IVR/Web special process to read transactions from the PPPEST table which contains the daily IVR and Web sourced transaction images. PPESTEDB is coded to recognize various transaction types within the transaction file.

ScholarShare transactions will be added to the PPPEST input file. PPESTEDB will be modified to recognize the new transaction type DG for adding GTN's to the new PPPDDG Table, and the GTN 600 X1 transaction for the ScholarShare G-Balance.

PPESTREJ

PPESTREJ is executed during the PPP130 IVR/Web special process to report rejected transactions from the PPPEST table. It will be modified to display rejected ScholarShare transaction data using the fields defined in modified copymember CPWSXESR.

PPESTRP2

PPESTRP2 is executed at the end of the PPP130 IVR/Web special process to report transaction activity for the PPPEST table. It will be modified to display DG transaction counts using the fields defined in modified copymember CPWSXESS.

PPESTUTL

PPESTUTL is executed during the PPP130 IVR/Web special process to process and count transactions for the PPPEST table. It will be modified to add DG transaction counts using the fields defined in modified copymember CPWSXESS.

PPGTNHUP

PPGTNHUP is a CDB update program that performs updates of the PPPGTNH table from PPPGTN data. It will be modified to copy the new Direct Deposit GTN Indicator column from the PPPGTN table to the PPPGTNH table.

PPGTNUT2

PPGTNUT2 is a called utility program which loads PPPGTN rows into an array defined by CPWSXGTA. The GTN data is indexed in the array by GTN Number so that data can be accessed directly when the GTN Number is known. It will be modified to copy the new Direct Deposit GTN Indicator column from the PPPGTN table to the array defined by CPWSXGTA.

PPIIVR

PPIIVR performs the EDB extract for IVR processing. PPIIVR will be modified to include the ScholarShare Deduction Amount (GTN 600 G-Balance), YTD Amount (GTN 600 Y-Balance), a zero Declining Balance and low Sybase value Effective Date in Group 9 of the deduction file.

Error Report 1853 reported that in some rare cases Appointment Begin and End Dates have existed with low values, i.e. 01/01/0001. When these dates are passed to Sybase they are treated as invalid and cause abends. PPIIVR will be modified to replace these low value dates with an acceptable low Sybase date value of 01/01/1900.

PPKEYCHD

PPKEYCHD performs key changes and deletions. It will be modified to process the new PPPDDG table for key changes and deletions.

PPP050

PPP050 processes transactions and uses the card type definitions on the Data Element Table to break transactions down into data element parts. PPP050 will be modified to process the new DG transaction. CARD-KEY and CARD-KEY-ELEM will be increased to +143 for the additional DG card type. This matches the card type count MAX-CARD-TYPES in CPWSXIDC, and should also match the distinct card types on the PPPDET table. WS-SET-X-MAX and WS-SET-TRANS-CD will be increased to +13 for the additional DG set transaction.

PPP130

PPP130 is the main driver for Periodic EDB Maintenance, including the daily IVR and Web sourced data updates. Standard definitions of table rows, saved and current, and change audits are performed for all tables. Additionally, a simple table change count report is issued. PPP130 will be modified to add the new Employee Direct Deposit GTN PPPDDG table to all such processes.

PPP250

PPP250 prints the Data Base Record Display. It will be modified to process the multiple occurrence PPPDDG table data and display it at the end of the PPP2501 report after the Benefits Array Data.

PPP420

PPP420 prints checks and Advice statements. The PPP4207 report displays a "GTN Surepay" total, and further breaks that down into individual GTN amounts within organization. This process is driven by GTN and organization definitions in copymember CPWSXNGO. The inclusion of the ScholarShare GTN 600 in the CPWSXNGO copymember will trigger ScholarShare reporting. PPP420 will **not** be modified, although it will require recompilation.

PPP430

PPP430 creates the direct deposit ACH file. It currently processes net pay in the main file, and GTN's defined in copymember CPWSXNGO in separate batches. It will be modified to process entries on the PPPDDG table and create a separate ScholarShare batch. The entries, like net pay and unlike the other batches, will contain employee specific account numbers obtained from the PPPDDG table.

The existing Surepay GTN logic driven by CPWSXNGO will also process ScholarShare records. New code will be added to check if a GTN is defined by copymember CPWSXNGO 88 value XNGO-GTN-ON-DDG-TABLE. If so, rather than using the bank transit and account data defined by CPWSXNGO, the PPPDDG table will be accessed by Employee ID and GTN Number to obtain the bank transit and account data.

The ScholarShare transactions will be displayed on the PPP4303 report.

The ScholarShare batch totals will be included in the file totals.

The standard batch header and detail records are defined by copymember CPWSXSPN. A Type 5 Company/Batch Header will be written, followed by multiple detail Type 6 Detail Records, followed by a Type 8 Company/Batch Control Record. The Addenda Indicator, as defined in copymember CPWSXNGO, will be N, and no addenda records (Type 7) will be written. Following is the record definition for an employee record, a Type 6.

```
01  XSPN-6-RECORD .
    05  XSPN-6-TYPE                PIC X(01) VALUE '6' .
    05  XSPN-6-TRANS-CODE          PIC 9(02) .
    05  XSPN-6-TR-ROUTE-GROUP .
        10  XSPN-6-TR-ROUTE-NO      PIC X(08) .
        10  XSPN-6-TR-ROUTE-CHKDIG PIC X(01) .
    05  XSPN-6-BANK-ACCT-NO        PIC X(17) .
    05  XSPN-6-AMOUNT              PIC 9(08)V99 .
    05  XSPN-6-EMP-ID              PIC X(15) .
    05  XSPN-6-EMP-NAME            PIC X(22) .
    05  XSPN-6-LOC-CD              PIC X(02) VALUE SPACES .
    05  XSPN-6-ADDENDA-IND         PIC 9(01) VALUE ZERO .
    05  XSPN-6-TRACE .
        10  XSPN-6-TR-ROUTE         PIC X(08) VALUE SPACES .
        10  XSPN-6-TRACE-NO        PIC 9(07) VALUE ZEROES .
```

The transaction code (XSPN-6-TRANS-CODE) will be set to 23 for a Checking Account Type (C), 33 for a Savings Account Type (S), or 00 if neither. Account Type for the ScholarShare data will default to C.

The Bank Transit Number (XSPN-6-TR-ROUTE-GROUP) will come from DDG_TRANSIT_NUM on the PPPDDG row for the employee and GTN 600.

The Bank Account (XSPN-6-BANK-ACCT-NO) will come from DDG_ACCT_NUM on the PPPDDG row for the employee and GTN 600.

The amount (XSPN-6-AMOUNT) will come from the accumulated GTN 600 deductions on the PAR file.

The Employee ID (XSPN-6-EMP-ID) and Name (XSPN-6-EMP-NAME) will come from the EDB PPPPER row.

A new format routine 04 will be added. It will set the Addenda Indicator (XSPN-6-ADDENDA-IND) to zero, i.e. no addenda record. It will move CCR Location to Location Code (XSPN-6-LOC-CD).

The Trace Routing Number will come from DDG_TRANSIT_NUM on the PPPDDG row for the employee and GTN 600. It does not include the check digit.

The Trace Number will come from WK-TRACE-NO, an internally incremented work field.

PPP855

PPP855 performs “reverse engineering” to recreate from DB2 tables a subset of tables on the RCSTORE file that used to be generated from the VSAM CTL file: System Parameter Table, Gross-To-Net Table, Federal Tax Table, System Calendar Table and Description Of Service Table. PPP855 was issued in Release 1434 to provide ongoing support for those campus and UCOP applications still requiring the RCSTORE file. The Base VSAM file was made obsolete in Release 1465. At that time it was stated that future additions to the five tables would **not** be supported in PPP855. Therefore PPP855 will not be modified.

Bind Members

PPDDGUTL(new)

A package bind member will be created for PPDDGUTL.

PPDDGUTW(new)

A package bind member will be created for PPDDGUTW.

PPEC717(new)

A package bind member will be created for PPEC717.

PPP040

Members PPDDGUTL and PPDDGUTW will be added to the plan bind for PPP040.

PPP050

Members PPDDGUTL and PPDDGUTW will be added to the plan bind for PPP050.

PPP080

Member PPDDGUTL will be added to the plan bind for PPP080.

PPP120

Members PPDDGUTL and PPDDGUTW will be added to the plan bind for PPP120.

PPP130

Members PPDDGUTL and PPDDGUTW will be added to the plan bind for PPP130.

PPP170

Members PPDDGUTL and PPDDGUTW will be added to the plan bind for PPP170.

PPP250

Member PPDDGUTL will be added to the plan bind for PPP250.

Table Updates

System Messages Table (PPPMSG)

A new Transaction Reject level message will be created for the update edit of the Direct Deposit GTN Indicator in PPCTGTNE. The Direct Deposit GTN Indicator must be blank, N or Y.

A08018910100055INVALID GTN DIRECT DEPOSIT INDICATOR

New Transaction Reject level messages will be created for the explicit EDB Update edit of the ScholarShare DG transaction in PPEC717.

C08081500110155REQUIRED DIRECT DEPOSIT DATA MISSING - TRANSACTION SET BLOCKED
C08121500110155REQUIRED DIRECT DEPOSIT DATA MISSING - TRANSACTION SET BLOCKED
C08081510110155GTN DIRECT DEPOSIT INDICATOR NOT Y - TRANSACTION SET BLOCKED
C08121510110155GTN DIRECT DEPOSIT INDICATOR NOT Y - TRANSACTION SET BLOCKED

New Transaction Reject level (batch) and Employee Reject level (online) messages will be created for the explicit EDB Update edit of the ScholarShare G-Balance in PPEG600.

A08081190100055DEDUCTION NOT ALLOWED - NO ACCOUNT NUMBER PRESENT
A08121190100055DEDUCTION NOT ALLOWED - NO ACCOUNT NUMBER PRESENT

New Transaction Reject level messages will be created for the Daily Special Process ADC Code edit of the DG transaction in PPEC146.

C08130650100055DIRECT DEPOSIT GTN ALREADY EXISTS - ADD BLOCKED
C08130660100055DIRECT DEPOSIT GTN DOES NOT EXIST - CHANGE/DELETE BLOCKED

Code Translation Table (PPPCTT)

A transaction will be created for code translation of the new ScholarShare GTN 600.

A38 CTLGTNLBL 60024ScholarShare

Data Element Table (PPPDET)

The new PPPDDG table data elements will be defined on the Data Element Table. They will be defined for the blank card type and for the DG transaction. They will be defined with Consistency Edit trigger 717 and GTN Edit trigger 600. The GTN Number will be defined as the mandatory key field for the DG set transaction.

C061 0780 X03 ODDG GTN NUM
C062 0780PPPDDG
C064 0780717
C065 0780600
C061 0781 X01 ODDG ADC CODE
C062 0781PPPDDG
C064 0781717
C065 0781600
C061 0782 X09 ODDG TRANSIT NUM
C062 0782PPPDDG

C064 0782717
C065 0782600
C061 0783 X17 ODDG ACCT NUM
C062 0783PPPDDG
C064 0783717
C065 0783600
C061 0784 X01 ODDG ACCT TYPE
C062 0784PPPDDG
C064 0784717
C065 0784600
C061 0785 X05 ODDG BANK KEY
C062 0785PPPDDG
C064 0785717
C065 0785600

C061DG078019X03 ODDG GTN NUM 1Y
C064DG0780717
C065DG0780600
C061DG078122X01 ODDG ADC CODE 0N
C064DG0781717
C065DG0781600
C061DG078223X09 ODDG TRANSIT NUM0N
C064DG0782717
C065DG0782600
C061DG078332X17 ODDG ACCT NUM 0N
C064DG0783717
C065DG0783600
C061DG078449X01 ODDG ACCT TYPE 0N
C064DG0784717
C065DG0784600
C061DG078550X05 ODDG BANK KEY 0N
C064DG0785717
C065DG0785600

Gross-to-Net Table (PPP GTN)

Sample test transactions will be created to update the GTN table for the new ScholarShare GTN. The assigned Base GTN Number will be 600. Campuses will be responsible for defining the new GTN for local production.

It will be defined as a Miscellaneous group Deduction.
The new Direct Deposit Indicator will be Y.
The GTN Usage Code will be F.
The Y Balance will be Y.
The IDED Indicator will be Y.
The IGTN Indicator will be Y.
The Consistency Edit Routine will be 600.
The Liability Account Number will be 115052.
An Effective Date will not be required.

Routine Definition Table (PPRTD)

A transaction will be created to add new program PPEC146. It will perform ScholarShare edits for the TIAA-CREF sourced data.

A37C146PPEC146 SCHOLARSHARE EDITS

Transactions will be created to add new programs PPEC717 and PPEG600. They will perform ScholarShare edits for explicit EDB Updates.

A37C717PPEC717 DIRECT DEPOSIT GTN SET EDITS

A37G600PPEG600 SCHOLARSHARE DEDUCTION EDITS

Processing Group Table (PPPGT)

A transaction will be created to add new program PPEC146 to Program 13 Processing Group 105 for the nightly IVR/Web sourced, and now ScholarShare sourced, special process.

A361131051420C146Y

Transactions will be created to add new program PPEC717 to Program 08 Processing Group 010, and Program 12 Processing Group 011. Consistency Edit trigger 717 will be defined for the program. This program must process ahead of PPEG600.

A361080100150C717

A362080100150 C717

A361120110050C717

A362120110050 C717

Transactions will be created to add new program PPEG600 to Program 08 Processing Group 021, and Program 12 Processing Group 021. GTN trigger 600 will be defined for the program.

A361080212300G600

A362080212300 G600

A361120210100G600

A362120210100 G600

RDO Definition for CICS

Transactions will be created to define the four new fetch complex programs used online to CICS, and the ScholarShare edit programs used in explicit EDB Update.

PPDDGFET

PPDDGUPD

PPDDGUPD

PPDDGUTL

PPEC717

PPEG600

CICS Helptext

Data Dictionary entries and CICS Helptext will be created for the new Employee Direct Deposit GTN Table data elements. Initially they will not be displayed on any CICS screen so CICS Help anchors will not be created.

DE 0780	DDG GTN Number
DE 0781	DDG ADC Code
DE 0782	DDG Bank Transit Number
DE 0783	DDG Employee Bank Account Number
DE 0784	DDG Employee Bank Account Type
DE 0785	DDG SPB Bank Key

Forms

UPAY545 Gross-to-Net Table

The UPAY545 form will be modified to add a one character field for GTN Direct Deposit Indicator to Transaction 1 in column 76.

ScholarShare Enrollment

Enrollment in ScholarShare will be processed by TIAA CREF. A university form will **not** be created as part of this release.

ScholarShare EDB Update Transaction

Initially the DG transaction will only be used in the nightly PPP130 IVR/Web/ScholarShare process. A form will **not** be created as part of this release.

JCL

Load and Unload EDB Tables

Sample JCL for adding the PPPDDG table to the Base EDB load and unload JCL will be created. The table will be defined as SYSREC38 in the Base system JCL.

Campuses will be responsible for appropriately identifying and modifying all local database related JCL.

Attachments

Attachment A	ScholarShare transactions from UCOP TIAA-CREF process
Attachment B	Gross-to-Net Table report with GTN Direct Deposit Indicator
Attachment C	Draft Data Dictionary entries for new PPPDDG data elements

Attachment A ScholarShare transactions from UCOP TIAA-CREF process

X1 Transaction containing ScholarShare G-Balance

Trans	Employee No	Date Prepared	Elem No	Data: G-Balance	Filler
1-2	4-12	13-18	19-23	24-30	31-102
X1	123456789	MMDDYY	6600G	12345V67	SPACES

Sample transaction:

-----1-----2-----+-----3-----+-----4-----+-----5-----+-----6-----+-----7-----→102
 X1 4440000010317036600G0046000

DG Transaction containing Employee Direct Deposit GTN data

Trans	Employee No	Date Prepared	GTN	ADC Code	Transit No	Employee Account No	Acct Type	Bank Key*	Filler
1-2	4-12	13-18	19-21	22	23-31	32-48	49	50-54	55-102
DG	123456789	MMDDYY	999	A, D or C	123456789	1234567890ABCDEFG	C, S or blank	ABCDE	SPACES

Sample transaction:

-----1-----2-----+-----3-----+-----4-----+-----5-----+-----6-----+-----7-----→102
 DG 444000001031703600A 1210002486138-123456 S

* The Bank Key is for future expanded use of this table and will not contain data on the initial TIAA-CREF transactions

Attachment C Data Dictionary entries for new PPPDDG data elements

System Number: EDB0780

User Access Name: 0780-x

Programming Name: DDG_GTN_NUMBER IN PPPDDG

Release Date: 05/01/03

Comments:

Locations N/A

Name: GTN FOR DIRECT DEPOSIT DEDUCTIONS

Type: ALPHANUMERIC

Length: 3

Format:

N/A

General Description:

A three character code corresponding to a Gross-to-Net Number associated with an Employee Direct Deposit GTN deduction. The deduction amounts for such GTN's will be transmitted via the Direct Deposit ACH file.

Code Interpretation:

N/A

System Number: EDB0781

User Access Name: 0781-x

Programming Name: DDG_ADC_CODE IN PPPDDG

Release Date: 05/01/03

Comments:

Locations N/A

Name: EMPLOYEE DIRECT DEPOSIT GTN ADC CODE

Type: ALPHANUMERIC

Length: 1

Format:

N/A

General Description:

Code indicating the most recent update activity applied to the associated Employee Direct Deposit GTN data (EDB 0780-0785).

Code Interpretation:

A - Add
C - Change
D - Delete

System Number: EDB0782

User Access Name: 0782-x

Programming Name: DDG_TRANSIT_NUM IN PPPDDG

Release Date: 05/01/03

Comments:

Locations N/A

Name: EMPLOYEE DIRECT DEPOSIT GTN BANK TRANSIT NUMBER

Type: ALPHANUMERIC

Length: 9

Format:

N/A

General Description:

Transit Number identifying the bank to which Employee Direct Deposit GTN deductions are to be sent.

Code Interpretation:

N/A

System Number: EDB0783

User Access Name: 0783-x

Programming Name: DDG_ACCT_NUM IN PPPDDG

Release Date: 05/01/03

Comments:

Locations N/A

Name: EMPLOYEE DIRECT DEPOSIT GTN ACCOUNT NUMBER

Type: ALPHANUMERIC

Length: 17

Format:

N/A

General Description:

Account Number identifying the employee account to which Employee Direct Deposit GTN deductions are to be sent.

Code Interpretation:

N/A

System Number: EDB0784

User Access Name: 0784-x

Programming Name: DDG_ACCT_TYPE IN PPPDDG

Release Date: 05/01/03

Comments:

Locations N/A

Name: EMPLOYEE DIRECT DEPOSIT GTN ACCOUNT TYPE

Type: ALPHANUMERIC

Length: 1

Format:

N/A

General Description:

A Code defining the type of employee account to which Employee Direct Deposit GTN deductions are to be sent.

Code Interpretation:

C - Checking Account
S - Savings Account

System Number: EDB0785

User Access Name: 0785-x

Programming Name: DDG_SPB_BANK_KEY IN PPPDDG

Release Date: 05/01/03

Comments:

Locations N/A

Name: EMPLOYEE DIRECT DEPOSIT GTN SUREPAY BANK KEY

Type: ALPHANUMERIC

Length: 5

Format:

N/A

General Description:

A code which identifies the key of a bank entry on the Surepay Bank Table (PPSPB).

Code Interpretation:

Blank - No entry on the SPB Table. Data fully defined on the PPPDDG Table.
Not blank - A matching entry exists on the PPSPB Table for Transit Number.