

Release 1884

**Service Request 82483
Track E-Verification of Employees**

Detail Design

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Introduction

Service Request 82483

Service Request 82483 asks for modifications to PPS to support the Federal requirement to E-Verify employees paid from funds associated with certain Federal contracts. There is a need to track whether or not an employee must be E-Verified, to track the E-Verification status, and to record the date on which the employee was confirmed in the E-Verify system.

Overview of PPS Modifications

Initialization

A process will be developed to check the EDB for employees with FAUs that require E-Verification. Employees will be reported if they have a blank E-Verify Status. The process can be run in report mode or update mode, and can be re-run periodically. This process will be combined with the Reporting process identified below.

EDB File Maintenance Process

The EDB File Maintenance Process will be modified to include edits for valid combinations of the E-Verify Date and Status. Values for the E-Verify Date and Status will be derived under certain circumstances. The E-Verify Date and Status will be included in the General Information section of all PAN notices; PANs will be produced when the E-Verify Date or Status is modified, and will include the General Information section and the Appointment and Distribution Information section. Added or updated FAUs will trigger an evaluation of the E-Verify Date and Status; the FAU will be checked to see if it is a Federal contract that requires E-Verification.

Reporting

A process will be developed to report on employees with selected E-Verify Status codes. This process will be combined with the Initialization process identified above.

Interface Files

The Corporate Personnel (CPS) Employee data interface file and the Senior Leadership (SLIS) Employee data interface file will be modified to include the E-Verify Date and Status.

EDBInquiry Application

Minor changes will be made to the EDBInquiry Application to display the new data elements in the Citizenship and Employment screens. The version number for the application will be added to the footer.

PPSWebServices Application

The code to invoke CICS web services is contained in a shared library called PPSWebServices. This code is used by both PPSWeb and EDBInquiry. Minor changes will be made to the PPSWebServices Application by creating new get and set methods for the new data elements.

Programs

New and Modified Programs

PPBASFET, PPBASUPD, PPBASHST

These programs are the utility programs for HDB table PPPBAS. They will be modified to include E_VERIFY_DATE and E_VERIFY_STATUS and the change flags for each (E_VERIFY_DATE_C and E_VERIFY_STATUS_C).

PPEC158 (new)

PPEC158 performs consistency edits and maintenance for E-Verify data. It will:

- derive the E-Verify Status when an employee's current or future FAU is added or changed and the FAU is for a Federal contract that requires E-Verification
- edit for valid updates of the E-Verify Date and Status

The program will be triggered by changes to the E-Verify Date, E-Verify Status, and any change to a distribution FAU or end date.

First, check if the E-Verify Date or E-Verify Status fields were changed, and assume that the distributions will need to be checked for E-Verify eligibility.

If the E-Verify Date was changed to a different value and the E-Verify Status was changed to the same value, treat the E-Verify Status field as unchanged (to prevent potential edit messages if the E-Verify status is derived as C).

If both fields were changed, reject (586/INVALID ATTEMPT TO UPDATE BOTH E-VERIFY DATE AND STATUS FIELDS).

If the E-Verify Status field was cleared:

If the original E-Verify Status is C, reject (581/INVALID STATUS CODE ENTRY; CURRENT STATUS CODE CANNOT BE UPDATED), don't check distributions

If the E-Verify Status field was changed to N:

If the original E-Verify Status is not Y and is not N, reject (581/INVALID STATUS CODE ENTRY; CURRENT STATUS CODE CANNOT BE UPDATED), don't check distributions

If the E-Verify Date field was cleared:

If the E-Verify Status is not C, reject (585/E-VERIFY DATE CAN BE CLEARED ONLY IF E-VERIFY STATUS IS C), don't check distributions

If the E-Verify Status is C, warn (587/E-VERIFY DATE DELETED. E-VERIFY STATUS CODE WILL BE RE-DERIVED)

If the E-Verify Date field was changed:

If the E-Verify Date is prior to the Hire Date, warn (582/E-VERIFY DATE IS PRIOR TO HIRE DATE).

If the E-Verify Date is more than 3 days after the Hire Date, warn (583/E-VERIFY DATE IS MORE THAN THREE DAYS AFTER HIRE DATE).

If the E-Verify Status is not C, set the derived status to C

Don't check the distributions:

If the employee was previously confirmed (Status is C, Date is not blank)

If the Status code N was entered

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If the Status code is Y

If the hire date is on or prior to the E-Verify cutoff date (11/06/86)

If the distributions must still be checked, check each current or future distribution for FAUs where the FAU is subject to E-Verify (call PPFAU123); bypass deleted or expired distributions.

If the FAU is subject to E-Verify and the E-Verify Status or Date were updated, set the E-Verifiable distribution flag to Y

If the FAU is subject to E-Verify and the E-Verify Status and Date were not updated, but the FAU was updated or the distribution end date was extended, set the E-Verifiable distribution flag to Y

If the distributions were checked and the derived status is not C, set the derived status to Y if the E-Verifiable distribution flag is Y, otherwise set it to blank

If the derived status is blank and the original E-Verify Status was C, set the E-Verify Status to blank.

If the derived status is C and the original E-Verify Status was not C, set the E-Verify Status to C

If the E-Verify Status was blank and there were no current or future E-Verifiable distributions, warn (584/E-VERIFY STATUS CODE INDICATES THAT E-VERIFICATION IS NOT NEEDED)

If the derived status is Y and the original E-Verify Status was not Y, warn (588/E-VERIFY STATUS CODE SET TO Y; EMPLOYEE MUST BE E-VERIFIED), set the E-Verify Status to Y.

PPFAU123 (new)

PPFAU123 determines if the given FAU is in the group of funds subject to E-Verify (FEDCTRCT). It requires an FAU as input, and will return a Y/N result. It will be modeled on PPFAU122, which determines whether a given FAU is a Contract & Grant FAU.

PPIDXHST

PPIDXHST prepares a new row for the History PPPIDX table. It will be modified to include E_VERIFY_DATE and E_VERIFY_STATUS) and the change flags for each (E_VERIFY_DATE_C and E_VERIFY_STATUS_C).

PPNTGINF

PPNTGINF generates the common text for all EDB Entry/Update PANs. It will be modified to add E-Verify Date (EDB 1164), E-Verify Status (EDB 1165), and I-9 Date (EDB 0284). The CICS PAN will be re-arranged to more closely match the format of the Web PAN.

PPNTTRG

PPNTTRG identifies all activity that has occurred which should trigger the generation of a PAN. It will be modified to add a new event (EVER), which will be triggered by changes to E-Verify Date (EDB 1164) or E-Verify Status (EDB 1165).

PPPAYCHG, PPPAYFET, PPPAYUPD, PPPAYUTL, PPPAYUTW

These programs are the utility programs for EDB table PPPPAY. They will be modified to include E_VERIFY_DATE (EDB 1164) and E_VERIFY_STATUS (EDB 1165).

PPP231 (new)

PPP231 initializes and reports on employees with E-Verify data or eligibility. It produces a tab-delimited reporting file. It can be run in three modes:

- **REPORT:** identify all employees with a blank E-Verify Status who have current or future distribution FAUs that are subject to E-Verify
- **UPDATE:** identify all employees with a blank E-Verify Status who have current or future distribution FAUs that are subject to E-Verify, update the E-Verify Status to Y directly in the EDB, and produce an ECF file for HDB processing and/or reporting
- **STATUS:** identify all employees with selected E-Verify Status values

The program will read a run specification file to determine the mode. If the mode is STATUS, it must include a valid status selection value:

- **Y or blank** – select only employees with E-Verify Status of Y
- **N** – select only employees with E-Verify Status of N
- **B** – select only employees with E-Verify Status of blank, but who have E-Verifiable distributions
- **A** – select employees with E-Verify Status of Y or N, or blank (who also have E-Verifiable distributions)

First, select all employees who are not separated, with hire date greater than the E-Verify hire date cutoff.

Check each current or future distribution for FAUs where the FAU is subject to E-Verify (call PPFAU123).

If the mode is REPORT:

If there are distributions subject to E-Verify and the E-Verify Status is blank, create a reporting record for each distribution subject to E-Verify

If the mode is UPDATE

If there are distributions subject to E-Verify and the E-Verify Status is blank, create a reporting record for each distribution subject to E-Verify, update the E-Verify Status to Y directly, and create an ECF record

If the mode is STATUS

If the E-Verify Status matches an E-Verify Status specified in the program run specification, create a reporting record for each distribution subject to E-Verify; if no distributions are subject, create a reporting record with only the employee-level information

PPP711

PPP711 produces the CPS Interface File from the employees' data on the EDB. It will be modified to include E-Verify Date and Status.

PPP715

PPP715 creates SLIS interface files from EDB employee, appointment, and distribution data. It will be modified to include E-Verify Date and Status in the employee interface file.

PPWEPD2

PPWEPD2 is the screen processor for the EPD2 function (Employee Personal Data 2). It will be modified to include E-Verify Date (EDB 1164) and E-Verify Status (EDB 1165).

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PPWIGEN

PPWIGEN is the screen processor for the IGEN function (General Information 1). It will be modified to include E-Verify Date (EDB 1164) and E-Verify Status (EDB 1165), and to remove US Date of Entry (EDB 1169).

PPWHPER

PPWHPER is the screen processor for the HPER function (Personal Data History). It will be modified to include E-Verify Date (EDB 1164) and E-Verify Status (EDB 1165).

Copy Members

CPLNF018

CPLNF018 defines a linkage area for PPFAU018. It will be modified to include a level-88 value for new fund group FEDCTRCT.

CPLNF123 (new)

CPLNF123 defines a linkage area for PPFAU123. It will be modeled on CPLNF122.

CPWSNGWB

CPWSNGWB defines a work area for PAN processing. It will be modified to include EVER as a valid event value.

CPWSRPAY

CPWSRPAY defines a row of the PPPPAY EDB table, with FILLER added to allow a fixed length. It will be modified to include E-Verify Date and E-Verify Status.

CPWSRBAS

CPWSRBAS defines a row of the PPPBAS HDB table, with FILLER added to allow a fixed length. It will be modified to include E-Verify Date and E-Verify Status and their respective change flags.

CPWSXECP

CPWSXECP defines the record layout for the CPS Employee file. It will be modified to include E-Verify Date and Status.

CPWSXIDC

CPWSXIDC contains several installation constants. It will be modified to include the E-Verify hire date cutoff (11/06/1986).

CPWSXSLA

CPWSXSLA defines the record layout for the SLIS Employee file. It will be modified to include E-Verify Date and Status.

Include Members

PPPVBAS1, PPPVZBAS

These INCLUDE members are the record layouts for the standard views of the PPPBAS table. They will be modified to include E-Verify Date and E-Verify Status (E_VERIFY_DATE and E_VERIFY_STATUS) and the change flags for each (E_VERIFY_DATE_C and E_VERIFY_STATUS_C).

PPPVPAY1, PPPVPAY2, PPPVZPAY

These INCLUDE members are the record layouts for the standard views of the PPPPAY table. They will be modified to include E-Verify Date and E-Verify Status (E_VERIFY_DATE and E_VERIFY_STATUS).

DDL Members

EDB PPPPAY Table

The following columns are being added to the PPPPAY table:

- E_VERIFY_DATE (DATE NOT NULL WITH DEFAULT '0001-01-01')
- E_VERIFY_STATUS (CHAR(1) NOT NULL WITH DEFAULT)

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

- TBPAY13A (new)

The following DDL member defines the PPPPAY table and will incorporate the new columns:

- TBPAY00C

The following view DDL members will incorporate the new columns:

- PPPVPAY1
- PPPVPAY2
- PPPVZPAY

HDB PPPBAS Table

The following columns are being added to the PPPBAS table:

- E_VERIFY_DATE
- E_VERIFY_DATE_C (CHAR 1)
- E_VERIFY_STATUS
- E_VERIFY_STATUS_C (CHAR 1)

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

- TBBAS13A (new)

The following DDL member defines the PPPBAS table and will incorporate the new columns:

- TBBAS00C

The following view DDL members will incorporate the new columns:

- PPPVBAS1
- PPPVZBAS

Bind Members

New and Modified Binds

PPP120

This bind member contains bind statements for plan PPP120. PPFAU018 will be added to the member list.

PPP231 (new)

This bind member will contain the plan bind for PPP231.

CICS Map Changes

PPEPD20

PPEPD20 is the CICS map for the screen function EPD2 - Employee Personal Data 2. It will be modified to add appropriate labels and data fields for entering and updating E-Verify Date (EDB 1164) and E-Verify Status (EDB 1165).

PPIGEN0

PPIGEN0 is the CICS map for the screen function IGEN - General Information 1. It will be modified to add appropriate labels and data fields for displaying E-Verify Date (EDB 1164) and E-Verify Status (EDB 1165); US Date of Entry (EDB 1169) will be removed.

PPHPER0

PPHPER0 is the CICS map for the screen function HPER - Personal Data History. It will be modified to add appropriate labels and data fields for displaying E-Verify Date (EDB 1164) and E-Verify Status (EDB 1165).

CICS Help Updates

CICS Help Text

New CICS Help texts for the following will be created.

- EDB 1164 (E-Verify Date)
- EDB 1165 (E-Verify Status)
- Group help for EDB 1164 and EDB 1165

Existing CICS Help text for the following will be modified:

- PND0010 (Notification Distribution Event Identifier)
- [Screen help for HPER \(Personal Data History\)](#)

CICS Help Anchors

CICS Help anchors were adjusted on the following screens:

- EPD2: The Help text associated with EDB 1164 will be anchored to the E-Verify Date label and data field; the Help text associated with EDB 1165 will be anchored to the E-Verify Status label and data field; other Help text will be re-anchored as needed.

- HPER: The group Help text associated with E-Verify data will be anchored to the E-Verify label; the Help text associated with EDB 1164 will be anchored to the E-Verify Date data field; the Help text associated with EDB 1165 will be anchored to the E-Verify Status data field; other Help text will be re-anchored as needed.
- IGEN: The group Help text associated with E-Verify data will be anchored to the E-Verify label; the Help text associated with EDB 1164 will be anchored to the E-Verify Date data field; the Help text associated with EDB 1165 will be anchored to the E-Verify Status data field; the Help text associated with EDB 1169 will be removed; other Help text will be re-anchored as needed.

Forms

UPAY932 – PPP231 Program Run Specification (new)

A new form will be developed for the run specification record for new program PPP231. It will contain the following fields:

- cols 1 – 11 PPP231-SPEC
- cols 12 – 17 run mode:
 - REPORT – identify all employees with a blank E-Verify Status who have current or future FAUs that are subject to E-Verification
 - UPDATE – identify all employees with a blank E-Verify Status who have current or future FAUs that are subject to E-Verification and update the Status to Y directly
 - STATUS – identify all employees with selected E-Verify Status values (see Selection below)
- col 18 E-Verify Status Selection (for mode STATUS only):
 - Y or blank – select only employees with E-Verify Status of Y
 - N – select only employees with E-Verify Status of N
 - B – select only employees with E-Verify Status of blank who also have E-Verifiable distributions
 - A – select employees with E-Verify Status of blank (who also have E-Verifiable distributions), Y, or N

Control Table Updates

System Messages Table

The following messages will be added to this table.

- CN-158 (CONSISTENCY EDIT 158 FAILED) – Severity Level of ‘7’ (Employee Reject) for online and ‘7’ (Employee Reject) for batch.
- 08-581 (INVALID STATUS CODE ENTRY; CURRENT STATUS CODE CANNOT BE UPDATED) – Severity Level of ‘7’ (Employee Reject) for online and ‘7’ (Employee Reject) for batch.
- 08-582 (E-VERIFY DATE IS PRIOR TO HIRE DATE) – Severity Level of ‘3’ (Warning) for online and ‘3’ (Warning) for batch.
- 08-583 (E-VERIFY DATE IS MORE THAN THREE DAYS AFTER HIRE DATE) – Severity Level of ‘3’ (Warning) for online and ‘3’ (Warning) for batch.
- 08-584 (E-VERIFY STATUS CODE INDICATES THAT E-VERIFICATION IS NOT NEEDED) – Severity Level of ‘3’ (Warning) for online and ‘3’ (Warning) for batch.
- 08-585 (E-VERIFY DATE CAN BE CLEARED ONLY IF E-VERIFY STATUS CODE IS C) – Severity Level of ‘7’ (Employee Reject) for online and ‘7’ (Employee Reject) for batch.

- 08-586 (INVALID ATTEMPT TO UPDATE BOTH E-VERIFY DATE AND STATUS FIELDS) – Severity Level of ‘7’ (Employee Reject) for online and ‘7’ (Employee Reject) for batch.
- 08-587 (E-VERIFY DATE DELETED; E-VERIFY STATUS WILL BE RE-DERIVED) – Severity Level of ‘3’ (Warning) for online and ‘3’ (Warning) for batch.
- 08-588 (E-VERIFY STATUS CODE SET TO Y; EMPLOYEE MUST BE E-VERIFIED) – Severity Level of ‘3’ (Warning) for online and ‘3’ (Warning) for batch.
- 12-581 (INVALID STATUS CODE ENTRY; CURRENT STATUS CODE CANNOT BE UPDATED) – Severity Level of ‘7’ (Employee Reject) for online and ‘7’ (Employee Reject) for batch.
- 12-582 (E-VERIFY DATE IS PRIOR TO HIRE DATE) – Severity Level of ‘3’ (Warning) for online and ‘3’ (Warning) for batch.
- 12-583 (E-VERIFY DATE IS MORE THAN THREE DAYS AFTER HIRE DATE) – Severity Level of ‘3’ (Warning) for online and ‘3’ (Warning) for batch.
- 12-584 (E-VERIFY STATUS CODE INDICATES THAT E-VERIFICATION IS NOT NEEDED) – Severity Level of ‘3’ (Warning) for online and ‘3’ (Warning) for batch.
- 12-585 (E-VERIFY DATE CAN BE CLEARED ONLY IF E-VERIFY STATUS CODE IS C) – Severity Level of ‘7’ (Employee Reject) for online and ‘7’ (Employee Reject) for batch.
- 12-586 (INVALID ATTEMPT TO UPDATE BOTH E-VERIFY DATE AND STATUS FIELDS) – Severity Level of ‘7’ (Employee Reject) for online and ‘7’ (Employee Reject) for batch.
- 12-587 (E-VERIFY DATE DELETED; E-VERIFY STATUS WILL BE RE-DERIVED) – Severity Level of ‘3’ (Warning) for online and ‘3’ (Warning) for batch.
- 12-588 (E-VERIFY STATUS CODE SET TO Y; EMPLOYEE MUST BE E-VERIFIED) – Severity Level of ‘3’ (Warning) for online and ‘3’ (Warning) for batch.
- 23-101 (DB2 SCR SELECT ERROR) – Severity Level of ‘8’ (See Operations) for batch
- 23-102 (RUN SPECIFICATION CARD IS MISSING) – Severity Level of ‘8’ (See Operations) for batch
- 23-103 (INVALID PROGRAM IN RUN SPECIFICATION) – Severity Level of ‘8’ (See Operations) for batch
- 23-104 (INVALID STATUS SELECTION IN RUN SPECIFICATION) – Severity Level of ‘8’ (See Operations) for batch
- 23-105 (INVALID MODE IN RUN SPECIFICATION) – Severity Level of ‘8’ (See Operations) for batch
- 23-106 (DB2 CCR SELECT ERROR) – Severity Level of ‘8’ (See Operations) for batch
- 23-107 (DB2 PAY UPDATE ERROR) – Severity Level of ‘8’ (See Operations) for batch
- 23-108 (DB2 PER UPDATE ERROR) – Severity Level of ‘8’ (See Operations) for batch

Code Translation Table

Two new EDB data element entries and their associated translations will be defined on this table.

- E-Verify Date (EDB 1164)
- E-Verify Status (EDB 1165)

A new PAN data element entry and its associated translation(s) will be defined on this table.

- EVER for PAN 0001

Data Element Table

The following new EDB data elements will be defined, and associated with the PPPAY Table.

- E-Verify Date (EDB 1164), with a conedit trigger value of C158
- E-Verify Status (EDB 1165), with a conedit trigger value of C158

The following existing EDB data elements will be modified to include conedit trigger values of C158:

- Distribution FAU (EDB 2043), all occurrences
- Distribution pay end date (EDB 2054), all occurrences

Data Element To Screens Table

The following new EDB data elements associated with the EPD2 screen will be defined on this table.

- E-Verify Date (EDB 1164)
- E-Verify Status (EDB 1165)

Processing Group Table

- PPEC158 will be executed in Program ID 08, Processing Group 008, Processing Sequence 1580. The trigger types will be C158 (Conedit/Implied maintenance).
- PPEC158 will be executed in Program ID 12, Processing Group 007, Processing Sequence 1580. The trigger types will be C158 (Conedit/Implied maintenance)

Routine Definition Table

- Add Conedit/Implied Maintenance program PPEC158.

Fund Group Table

- Add new group FEDCTRCT.

History Control Table Updates

History Data Element Table

The following Data Elements will be added to the History Data Element (HDE) Table.

- E-Verify Date (1164)
- E-Verify Status (1165)

Data Dictionary Updates

The following new Data Dictionary entries will be added:

EDB 1164 (new)

E-Verify Date

EDB 1165 (new)

E-Verify Status

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JCL Changes

PPP231 (new)

Sample JCL will be provided for new reporting and initialization program PPP231.

Java Changes

PPSWebServices Application

PPSWebServices is the java shared library which contains the code to invoke the CICS web services. It is used by both the PPSWeb and EDBInquiry applications.

Java Classes

EDBEmployee.java

Package: edu.ucop.ppsws.domain

EDBEmployee.java is the interface class for all of the employee related properties. The program will be modified by creating new get and set methods for the data elements, E-Verify Date and E-Verify Status.

MapBackedEDBEmpImpl.java

Package: edu.ucop.ppsws.domain

The implementation of EDBEmployee used in the PPS web applications. The program will be modified by implementing the methods created in the EDBEmployee interface.

EDBInquiry Java Application

Java Classes

CitizenshipAction.java

Package:edu.ucop.edbinquiry.actions

CitizenshipAction.java is the action class associated with the Citizenship/Visa Status Information screen, citizenship_ppwwicit.jsp. It formats fields from the EDBEmployee object and stores the formatted data back in that object. The program will be modified to format the E-Verify Date and store the formatted data in the EDBEmployee object.

EmploymentAction.java

Package:edu.ucop.edbinquiry.actions

EmploymentAction.java is the action class associated with the Employment Status Information screen, employment_ppwwiemp.jsp. It formats fields from the EDBEmployee object and stores the formatted data back in that object. The program will be modified to format the E-Verify Date and store the formatted data in the EDBEmployee object.

JSPs

citizenship_ppwwicit.jsp

citizenship_ppwwicit.jsp is the html format for the citizenship information screen. Data is displayed from the employeeInfo object. New labels and fields will be created to display the E-Verify Date and E-Verify Status.

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employment_ppwwiemp.jsp

employment_ppwwiemp.jsp is the html format for the employment status information screen. Data is displayed from the employeeInfo object. New labels and fields will be created to display the E-Verify Date and E-Verify Status.

footer.jsp

footer.jsp is the html format for the footer displayed at the bottom of the screen. It will be modified to include the EDB Inquiry version number.

version.jsp (new)

version.jsp is the html format that contains the version number for the Web EDB Inquiry application.

Other Files

edbinquiry.css

edbinquiry.css is the html style sheet used for the EDBInquiry application. Formatting for the EDB Inquiry version number will be added to the style sheet.