ONLINE EDB ENTRY/UPDATE INTERFACE TO THE IID SYSTEM DETAILED DESIGN

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1.0 Introduction

This document presents a detailed design for the interactions between the Payroll/Personnel Online EDB Entry/Update system and the IID system. For more information on the IID System, its purpose and design, see the document "Individual Identification Numbers".

The EDB Entry/Update system must interact with the IID system to accomplish the following tasks:

1. During the new hire process, the EDB Entry/Update system must request from the IID system assignment of an employee ID to the record of the individual being hired, and,

2. During ED3 maintenance, changes to EDB data elements that are also stored in the IID system must be updated in the IID system. These data elements are:

   a. Employee Name, EDB0105
   b. Name Suffix, EDB0106
   c. Date of Birth, EDB0107
   d. Social Security Number, EDB0111

Note: These data elements are referred to as "IID-related data elements" throughout this document.

The remainder of this document describes the programming changes to EDB Entry/Update that are necessary to perform these tasks.
2.0 Design Overview

An initial interaction with the IID system must take place during a New Hire or Rehire to request the assignment of a new employee ID that does not exist on the EDB.

Further interaction with the IID system must occur when a change is made to any IID-related data element.

Final interactions with the IID system must take place once the Entry/Update user has completed all data entry and has indicated their intent to commit the New Hire or IID-related change to the EDB. At this point, any changes to IID-related data elements (name, SSN or date of birth) must be communicated to the IID system or, in the case of a New Hire, the previously assigned ID number must be committed to the IID system.
3.0 Program Changes

3.1 On-line EDB Maintenance Process

Changes to on-line EDB maintenance are required for routine EDB updates that may include changes to IID-related data elements.

3.1.1 PPAPEUKS

The EDB Entry/Update Key Switch application processor (PPAPEUKS) will be modified to save the initial values of the IID-related data elements for later use by the EDB Entry/Update Update application processor (PPAPEUUP).

3.1.2 PPAPEUSR

The EDB Entry/Update Store/Restore application processor will require a minor change to save and restore a new Entry/Update external area used to interface with the IID system.

3.1.3 PPAPEUUP

The EDB Entry/Update Update application processor will be modified to detect value changes to any one of the IID-related data elements by comparing the values initially retrieved from the EDB with the “current” values which include any modifications made by the user.
If the condition CPWSWORK-AUTO-ID-GEN-ON is true (System Parameter 064 is equal to "1"), the current function is not a New Hire or Rehire, and a value for any of the IID-related data elements has changed, then the Update application processor will perform the following after the EDB Update Complex has signalled successful update of the EDB:

1. Call program UCIIDMNT with parameters indicating a "Change IDB Data" request and supplying the current employee ID number and current values of IID-related data elements.

2. Call program UCIIDMNT with parameters indicating a "Commit Pending Change" request, supplying the current employee ID number and IID-related data element values.

In the event of an error during either the Change or Commit process, the Update application processor will issue a diagnostic message and will abend the current EDB update process.

### 3.2 New Hire Process

#### 3.2.1 PPWEEID

The EEID screen processor will be modified such that during the New Hire or Rehire processes, each time the user enters or changes data on the EEID screen, the IID system will be called to backout any previously assigned ID number and to request assignment of a new ID number based on the current values of the IID-related data elements. The newly entered IID-related data elements will be saved for later use by the Final Edit application processor.

PPWEEID will perform its existing edits on the employee ID as if the ID had been entered manually. These edits insure that the ID number returned by the IID system is not already established on the EDB and also prepare a new, initial EDB record for further data entry.
3.2.2 UCRouter

If the IID System returns a "partial match" condition during ID assignment (indicating that the entered data partially matches an existing record on the IDB), the user will be automatically transferred to the IID Browse Resolution screen to either select the existing ID for use in the EDB, or to request that a new ID be assigned to the employee being entered on the EDB.

This function requires that UCRouter be modified to test for the switch-function indicator upon return from the EEID screen and when set, to perform a nested function switch to the IID System Browse Resolution screen.

3.2.3 PPAPEUNF

A minor change to the New Function Setup application processor will be required to bypass WHO processing during a new hire.

3.2.4 PPWEPD1, PPWETAX, PPWECON

The EPD1 and ETAX detail screen processors (PPWEPD1 and PPWETAX) will be modified to prevent any change to the IID-related data elements which appear on these screens, when a new hire is in progress. This change insures that once the EEID screen processor has invoked the IID system to assign an ID, no IID-related data element value can change potentially invalidating the assigned ID. If the user wishes to change an IID-related data element value, they must return to the EEID screen to do so.

The IID-related data elements will not be updateable on the ECON screen during a new hire. This change may be enforced by DES table transactions rather than by program code.
3.2.5 PPAEUUP

The EDB Entry/Update Update application processor (PPAEUUP) will be modified to call the IID system to commit the assignment of a new ID number when the condition CPWSWORK-AUTO-ID-GEN-ON is true. This call will be made only after the EDB Update Complex has signalled successful update of the EDB and will perform the following:

1. Call program UCIIDASN with parameters indicating a “Commit Pending Number” request and supplying the ID number previously assigned and retrieved in Final Edit. This call will also include the system identifier of “PPS” to indicate to the IID system that the ID number is recorded in the EDB.

The Update application processor will be further modified to call the IID system again when any errors occur that require an abend and the condition CPWSWORK-AUTO-ID-GEN-ON is true. In this situation, the Update application processor will perform the following:

1. Call program UCIIDASN with parameters indicating a “Backout Pending Number” request and supplying the ID number previously assigned and retrieved in Final Edit.

3.2.6 PPAEUCA

The Cancel application processor will be modified to call the IID system when the user requests that the New Hire or Rehire transaction be cancelled and the condition CPWSWORK-AUTO-ID-GEN-ON is true. In this situation, the Cancel application processor will perform the following:

1. Call program UCIIDASN with parameters indicating a “Backout Pending Number” request and supplying the current employee ID number. This will cancel the pending ID assignment in the IID system.
3.3 *Key Change Process*

3.3.1 **PPWEKEY**

The EKEY detail screen processor PPWEKEY will be modified to verify the new employee ID value entered on this screen against the IDB, when the condition CPWSWORK-AUTO-ID-GEN-ON is true.

If the new employee ID is found in the IDB, EKEY will issue an error message and will prevent the key change from completing.

3.3.2 **PPAPEUUP**

The Update application processor will be modified to enhance existing key change logic to include a call to the IID system to record the employee ID key change.

If the condition CPWSWORK-AUTO-ID-GEN-ON is true and a key change has been requested, the Update application processor will perform the following:

1. Call program UCHIDMNT with parameters indicating a “Change IID Data” request and supplying the current (“old”) employee ID number and the new requested employee ID number.

2. If the IID system returns an indication that the new ID number already exists on the IID, the EDB Key Change process will be terminated and a diagnostic abend will be produced.

3. Once the EDB Key Change program called by the Update processor has signalled successful update of the EDB, the Update processor will call program UCHIDMNT with parameters indicating a “Commit Pending Change” request and supplying the current employee ID number and the new requested employee ID number.

4. In the event of an error in the EDB Key Change process that requires an abend, the Update application processor will call program UCHIDMNT with parameters indicating a “Backout
Pending Change request and supplying the current employee ID number and the new requested employee ID number.
4.0 Copymember Changes

4.1 CPWSWORK

The Entry/Update work area copymember CPWSWORK will be modified to include additional fields for tracking status through the IID system interface.

4.2 CPWSXIID

A new copymember, CPWSXIID, will be created to carry the IID-related data element values initially retrieved from the EDB for comparison with the changed values entered by the user.
5.0 EDB Update Complex Changes

A new function will be added to the EDB Update Complex to allow the caller to update an existing set of EDB external areas with a new employee ID value. This function will be used by the IID System interface when data entry has occurred during a new hire, but a change to an IID-related data element value requires that a new employee ID be assigned.
6.0 Miscellaneous Changes

6.1 UCWMMNU

The Online Applications System Main Menu, UCWMMNU, will be modified to display the new IID Subsystem main menu selection.

6.2 One-Time IDB Loading

A one-time program will be developed to populate the IDB with initial data taken from the EDB. This will be an optional process since campuses may have another source for this data other than the EDB. If the EDB is not used as the initial source for the IDB data, then the IXB database must be populated with cross-reference data from the EDB.