Release 1953

Service Request 82961
Error Report 2321
Error Report 2322
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Web EDB Changes

Detail Design

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Introduction

Service Request 82961

Service Request 82961 asks for the development of a new a web application and set of corresponding web services which will support edit and update functions on employee records stored on the Payroll/Personnel System's Employee Data Base (EDB).

Error Report 2321

Error report 2321 points out that it would be desirable to remove the PPS Web Services library dependency on externally stored WSDLs. This release will address this problem by refactoring PPSWebServices to include its WSDLs in the META-INF directory of its deployment artifact. The requirement to allow different application instances to point at different CICS regions (endpoints) will be addressed by introducing two new JVM runtime properties, LOGON_SERVICE_ADDR, which must point at the 24/7 service endpoint for PS010 and PS020, and SERVICE_ADDR, which must point at regular service endpoint for all other services.

Error Report 2322

Error report 2322 notes that the port type name for PS025 has a default value, and should be modified to conform to the port type name for all other PPS web services. This release will address this issue by renaming the port type to “PS025PortType” from the currently released value “Greeter.”

Error Report 2333

Error report 2333 states that when an existing IID record is chosen for use in a Web New hire, the hire fails after the PAN note is entered when Submit to PPS is chosen.

This message is displayed on dname CEEMSG by the web service hosting CICS region:

******************************************************************************
* SOAP FAULT
* PROGRAM: PPAPEUUP
* MESSAGE: PPAPEUUP: ERROR RETURNED FROM UCIIDASN
******************************************************************************

This will be corrected in this release.

Error Report 2334

Error report 2334 states that when program PPCANHIR is invoked by PS025 or PS023 a row should be deleted from table UC0IDB only if IDB_STATUS = 'P'. This can result in the deletion of active rows from the IID database. This will be corrected in this release.

Error Report 2337

Error report 2337 states that an unexpected error condition occurs on the EDB Inquiry license screen when there is no license number for an item. This will be corrected in this release.

Error Report 2347

Error report 2347 states that there are two incorrect data element numbers defined in the campus customization file pertaining to the pay disposition screen:
0203 should be 0225 (Bank account number)
0266 should be 0226 (checking/saving indicator)

This will be corrected in this release.

**Error Report 2355**

Error report 2355 states that an incorrect version of copylib member PS003 was sent with release 1873. Since this copylib member is not copied into any programs, this does not affect processing. However, the copylib member might be used to generate new wsdl if the PS003 web service ever needs modification, so it must be replaced with a corrected version.

**Error Report 2358**

Error report 2358 states that the application does not reload codes and translations once a day during the property refresh operation. This will be remedied in this release with changes to the translation service implementation in the web application layer.

**Overview of PPS Modifications**

**Web EDB New Hire Module Modifications**

There will be minimal functional changes to the Web EDB New Hire module. With the addition of Web EDB change module and Web EDB Rehire module, a few things will change. This is resulting from the fact that all modules will share as much screen layouts as possible and avoid duplication of code.

The following summarizes the changes to the Web EDB New Hire module.

1. The look and feel of the screens will change based on the style adapted for the whole web EDB Update applications.
2. A confirmation screen will be added at the end of the completion of a new hire. From this screen, the user can navigate to IDOC selection screen or EDB Inquiry application. Earlier, user would go to IDOC screen after completing a new hire transaction.
3. IDOC screen will be changed to provide for IDOC document type selection screen. This screen will be shared among all EDB Update modules.
4. On the “Citizenship and Taxes” screen, “Is this employee a US Citizen?” will be changed from radio buttons to a check box labeled “This employee is not a US Citizen:”
5. On the “Employment Information” screen, “Date of Hire” will be changed to “Most Recent Date of Hire”. A new field labeled “Original Date of Hire” will appear below “Most Recent Date of Hire”.
6. On the “Appointments and Distributions”, a new section will appear labeled “Is this employee participating in the START program?” “Start program” information” may be entered in this section.
7. “Summary” screen will be changed to display un-entered data in normal color font.
8. “Review Messages and Update” screen will be changed to show the error code along with the error message. Currently, the error code can only be seen after expanding the form.
9. The CampusCustomizations.properties file provided with the previous release had two incorrect data element numbers pertaining to pay disposition screen. These have been correct to address Error Report 2347.

**PPS Web Services Modifications**

**Java Changes**

1. Some of the classes will be re-factored to reside in appropriate packages.
2. New classes will be created to support employee selection screen.
3. Existing classes will be modified to incorporate new data elements for EDB Update and EDB Rehire modules.

Web Service End Point Changes
1. A new directory named “wsdl” will be created to hold all WSDLs. Currently all the WSDLs reside in an external directory. This directory is identified by defining a JVM custom property name “PPWS_WSDL_HOME”. This property will become obsolete.
2. Two new JVM custom properties will be defined. The new properties are
   a. SERVICE_ADDRESS – The will hold the endpoint for all services except PS010 and PS020
   b. LOGON_SERVICE_ADDRESS – This will hold the endpoint for 24/7 services PS010 and PS020
3. A new java class will be created to read the two new JVM custom properties.
4. All web service client classes will be modified to invoke the web services using the end points defined by the two new JVM custom properties.

Web Services
1. A new web service (PS028) will be created to get SSN for an employee. This is needed as EDB Update allows for change of SSN.
2. There will be minor modifications to some of the other web services. This is covered in the “Mainframe Design” section of this document.

Web EDB Inquiry Modifications
1. The “Licenses” screen will be changed to allow for an absent license number. This change will be made to address Error Report 2337.
2. Because of the multitude of changes in the PPS Web Services module, a new build will be released. PPS Web Services module contains common code accessing web services and is used by Web EDB Inquiry.

Web Main Menu Modifications
The EDB Update menu will be expanded, to add separate links to each supported module, including New Hire, Rehire, and Change Existing Employee Record. In addition, there will be placeholders for the future planned modules - Separations, Leave of Absence, and Intercampus Action.

New Web EDB Change Existing Employee Record Module
The change existing employee record application will behave like the new hire application, with the following exceptions:

- Instead of starting with an employee identification entry screen, the application will present the user with an employee selection screen. This screen will allow users to select an employee by last name, employee ID, or SSN. The user will be able to select an employee and stay on the selection screen, or directly navigate to any application entry screen. When selecting by name, the application will display a list of existing records if an exact match cannot be found. The user will be able to select a name and load the employee immediately. The application will display an appropriate message if a match cannot be found for an entered EID or SSN.
- When editing an appointment or distribution, the application will allow entry of up to three action codes. These action codes will be submitted along with all other edited data. The application will also allow the user to choose a “no action code needed” option. Selecting this option will preclude the user from selecting any further actions codes for the appointment or distribution in question.
The application will allow the user to submit updates to the consistency check service from any screen. The application will present a submit button at the bottom of each screen, next to the existing Next and Prev navigation buttons. If the consistency check on the updated data results in no messages, the application will continue the process and submit the data for commit to the EDB. If the application detects that a PAN is required, the application will present the user with the PAN screen, otherwise it will complete the commit and show the user a confirmation screen.

The application will detect intervening updates at both the point of consistency check and submit for commit. If an intervening update is detected, it will cancel the transaction and alert the user that they must reselect the employee in order to continue.

**New Web EDB Rehire Module**

The application will present the same selection screen to the user as in the Change Existing Employee Record. The application will apply an additional edit on the successfully selected employee. If the separation date (EDB DE 0140) is equal to the initial value (‘01/01/0001’), then the application will cancel the transaction and display a message to the user warning that only separated employees can be rehired.

As in the Change Existing Employee Record module, the application will detect intervening updates, and cancel the transaction if one is detected.

**New Features in EDBUpdate**

Changing data requires some features which were not needed for the new hire application as it only adds new data. These are summarized below:

**Deleting Data**

Three types of data deletion must be handled

1. Deleting existing data from a field

   The current suite of web services will perform these tasks correctly without modification. Service PS006 receives an array of data element number and value pairs. If the value component is spaces or a single asterisk, the underlying code will correctly replace existing data with the correct initialized value for the data type.
   
   - If the field is alphanumeric, existing data will be replaced with spaces.
   - If the field is numeric, existing data will be replaced with zeroes.
   - If the field is a date, existing data will be replaced with the standard “low date” 01/01/0001.

2. Deleting a row with an occurrence key.

   In this case, an entire row of data will be deleted from an EDB table, based on the occurrence key.

   **Note:** Since the only example of this in the current application is License data, that is the only type of delete by occurrence key which will be supported by EDB Changes.

   There is a single set of data element numbers identifying license data, so an “occurrence key” of the license code is used to distinguish a row. When the web user has indicated that a license item should be deleted, the web application will send to service PS006 one data element for that row, with the proper occurrence key and with PS006-INPUT-RELATED-DATA set to “X”, which translates to “delete this occurrence”. The data element number should be the first element of the occurrence key. Program PPWEEDB will be modified to correctly populate the external array for the data to reflect the delete request. After that, the back-end EDB update programs will handle the delete correctly.

3. Deleting an appointment or distribution.

   Appointment and Distribution data differs from the example above because the data elements uniquely identify the appointment or distribution affected. So there is no occurrence key associated with an appointment or distribution. The
approach for handling appointment and distribution deletion is similar to that in the previous section. The web application will send a single data element to service PS006 for the appointment or distribution to be deleted, and with PS006-INPUT-RELATED-DATA set to “X”. The data element number should be the one corresponding to the appointment or distribution number for the record to be deleted.

Note that although the data element number corresponds to a specific appointment or distribution number, that number must be present in the occurrence key field sent to the service.

Programs PPWEEDB will be modified to correctly populate the external “AXD” array to reflect the delete request. After that, the back-end EDB update programs will handle the delete correctly.

Detecting Intervening Updates

In the EDB Changes application, it will be possible for one user to be working with an employee’s data, and have another user commit an update for the employee before the first user does. The first user must be alerted to this intervening update and be presented with refreshed data from the EDB (the first user’s changes must be re-entered). This scenario will not happen frequently, but it must be handled correctly.

The back-end code already automatically rejects an update at the time that the user attempts to commit the data. The consistency edit process will be modified so that intervening updates can be detected at that time. This will be done by requiring that calls to the consistency edit service PS006 always include the employee timestamp data element (EDB 0134) which can then be compared with the latest value on the EDB.

Enforcing Data-Level Security

PPS allows a user to update only employees for which he/she is authorized. Under the current architecture, the checking wouldn’t occur until the consistency edit phase. The employee data fetch service PS001 will be modified to check if the user is authorized to update the employee selected so that error messages can be issued at that time.

Appointment and Distribution Action Codes

In the new hire application, the only valid appointment or distribution action code was “new hire”, so there was no need for the user to enter or select the value. In the EDB changes application, the user will be required to select appointment and distribution action codes. Several web service programs will be modified to handle the new action codes.

Technical Change for Web Service Access

Previously, copies of all of the web service WSDL files were required on the web server so that PPSWebServices could use them to determine the endpoint of each service. The endpoint for each service will now be derived based on a customizable property. The PPSWebServices library will ship with all current WSDLs embedded within its jar structure, and at runtime, the endpoint will be derived based on a JVM property. The application will require two such properties, one for the 24/7 logon services (PS010 and PS020), and another for all other services.

Technical Change for Web Service Maintenance

In each CICS region, a “WSBIND” file must exist for each web service to define it to CICS. Previously, campuses were instructed to generate the WSBIND files from the WSDL files provided with the release. This step is deemed unnecessary, and WSBIND files can simply be copied from one location to another. Beginning with this release, only the WSBIND files will be sent with the release, along with instructions to copy them to the CICS regions in which they’ll be deployed. The WSDL files on the mainframe previously released for the PPS web applications will become obsolete.

All of the wsdls can still be found in the web services zip file (WEBSVZIP on the mainframe), in the folder PPSWebServices\src\java\main\META-INF\wsdl
PPS Web Application Supported Technologies

**Supported browsers:**
- IE 7.0, 8.0
- Firefox, 2.0, 3.6

**EDBUpdate use the following technologies**
- Struts 2 Release 2.1.6
- Struts Tiles 2.1.2
- Struts 2 OGNL 2.6.11
- Spring Framework 2.5.3
- xwork 2.1.2
- Jaspereports 3.7.0
- Itext 2.1.0
- Textile 2.2
- Various Apache commons libraries

**Javascript Libraries:**
- jQuery 1.4.2
- Jquery-ui 1.7.2
- Autocomplete 1.0.2 - jQuery plugin
- Autotab 1.1b - jQuery plugin
- Bestupper 1.0 – jQuery plugin
- jqGrid 3.5.2 - jQuery plugin
- jQuery Form 2.28 - jQuery plugin
- Masked Input 1.0 – jQuery plugin
- Numberformatter – jQuery plugin
- scrollTo – jQuery plugin

**PPSWebServices uses the following technologies**
- Sun Metro 1.5

**General System Design**

A Java application, deployed on a Java J2EE-compliant application server, serves HTML forms to the end user. The end user uses these forms to input various information necessary to edit employee record data and submit it back to the application. The Java application calls backend PPS web services via the PPS Web Services client library.

The application also serves a set of Javascript files to the client’s browser, which is responsible for running special interactions on the front end.

**Mainframe Design**

**Cobol Programs**

**PPAPEUUP**

PPAPEUUP is called by when an update to the EDB is in process and about to complete. It will be modified to prevent execution of 2500-update-iid when an intervening update has been detected. This corrects a latent bug uncovered during testing.
PPCANHIR

PPCANHIR is a called routine designed to cancel a new hire in progress. It will now be used to cancel any EDB update in progress. It will be modified to bypass processing of the CPWSXIID-INTERFACE when not doing a hire. It will also be modified to correct problems cited in error report 2334.

PPWWEDB

PPWWEDB is the "detail screen processor" for the WEDB function. It will be modified as follows:

- Currently the program requires the presence of the XIID temporary storage queue. Since this is only required for a new hire, this requirement will be bypassed when not processing a new hire.
- Add appointment and distribution action code 2 and 3 data elements to the code which builds the XCHG array.
- Add code to handle deleting an entire row of data, i.e. a license, an appointment or a distribution
  - To indicate the delete of a row, service PS006 must receive a single data element for that row with "X" in PS006-INPUT-RELATED-DATA which will get passed to PPWWEDB in CPWSDEED-RELATED-DATA. For an appointment or distribution row, the data element number should be the one corresponding to the appointment or distribution number for the record to be deleted. For license data, the data element number should be EDB 0711.
  - For license data, the occurrence key field must contain the occurrence key for the license row. For an appointment or distribution, the occurrence key field must contain the appointment or distribution number itself.
  - For license data, the program will set the XDEC array appropriately for a license record delete.
  - For appointment or distribution data, the program will set the appropriate action codes and set the XDEC array for a delete.

PS001

Web Service PS001 currently returns all non-initial data for an employee ID, with the exception of the social security number. In addition, it checks to see whether the logged in user is authorized to view data for that employee. If the user is not authorized, it returns an error code of 0200.

Program PS001 will be modified to use a new input field which will indicate whether the data is being fetched for read or update access. The program will be changed to use this code when it checks authorization (via call to UCPPPEDB)

PS006

PS006 is the driver for the PS006 web service which handles consistency editing for web new hire. It will be modified as follows:

- When performing a rehire (PS006-UPDATE-TYPE = ‘R’), PS006 will set the function code to new rehire bundle WRHR.
- When performing a regular update (PS006-UPDATE-TYPE = ‘U’), PS006 will set the function code to the new employee changes bundle WEDC.
- PS006 detect intervening updates and set an error code for this condition. This will be done by requiring that data element 0134 (LAST UPDATE TIMESTAMP) always be sent to the service. PS006 will compare the value sent with the value currently on the EDB. If they’re different, it will return an error code indicating that an intervening update has occurred.

PS008

PS008 is the driver for the PS008 web service to commit an EDB update which is already in progress. It will be modified to set an error code when an intervening update is detected, i.e. when UCRROUTER returns message number P0603.
PS012
PS012 is the ID assignment web service program. It will be modified to correct problems cited in error report 2333.

PS013
PS013 is a web service program which returns code values and code translations for requested data elements. It will be modified to include all appointment and distribution action codes, employment status, home department code, department code-alternate, layoff department code, work study department code, appointment department code, and distribution department code.

It will be modified to suppress the return of action translations for codes appt action 25, dist action 27, dist action 28, dist action 47, dist action 49, dist action 55.

PS018
PS018 is a web service program which returns detail for a PAN. It will be modified to include the five action codes associated with the PAN.

PS022
PS022 is the driver for web service PS022 which generates employee documents. It will be modified as follows:

- issue a soap fault if the back end document generator (PPDXMGR) returns a bad return code.
- populate the full text line for a landscape format report.

PS025
PS025 is the driver for web service PS025 which stores and retrieves suspended new hire data. It will be modified to not require the presence of temporary storage queue XIID, since that data is no longer required by PPCANHIR.

PS028 (new)
PS028 will be the driver of web service PS028 to return the social security number for an employee. This element is not returned by service PS001 for security reasons.

UCROUTER
UCROUTER is the main controller for EDB update processing. It will be modified to suppress message U0130 if the transaction is a web service to allow web service program PS008 to process the message produced by an application update processor that may request a cancel.

Copy Members

PS001
PS001 is the data structure for web service PS001, the data element fetch service. It is used to generate PS001.wsdl. A new input field will be added to indicate whether the data is being fetched for read or update access.

PS001I01
PS001I01 is the input data structure for service PS001. It will be automatically re-generated from the modified PS001.wsdl.

PS001O01
PS001O01 is the output data structure for service PS001. It will be automatically re-generated from the modified PS001.wsdl.
PS003

PS003 is the data structure for web service PS003, which returns EDB data for the browse screen. It is used to generate PS003.wsdl. It will be replaced by a corrected version.

PS006

PS006 is the data structure for web service PS006, the consistency edit service. It is used to generate PS006.wsdl. It will be modified as follows:

- A new 88-level will be added to PS006-UPDATE-TYPE to indicate that the update is a rehire.
- A new 88-level will be added to PS006-INPUT-RELATED-DATA to indicate that an entire row of data is to be deleted.
- A new 88-level will be added to PS006-RETURN-CODE to indicate that an intervening update has occurred.

PS008

PS008 is the data structure for web service PS008, the EDB commit service. It is used to generate PS008.wsdl. A new 88-level will be added to PS008-RETURN-CODE to indicate that an intervening update has occurred.

PS018

PS018 is the data structure for web service PS018, the PAN detail service. It is used to generate PS018.wsdl. An array of five action codes will be added to the output for this service.

PS018I01

PS018I01 is the input data structure for service PS018. It will be automatically re-generated from the modified PS018.wsdl.

PS018O01

PS018O01 is the output data structure for service PS018. It will be automatically re-generated from the modified PS018.wsdl.

PS022

PS022 is the data structure for web service PS022, the employee document service. It is used to generate PS022.wsdl. New 88-levels will be added to PS022-DOC-TYPE for all valid employee document types as follows:

- 88 PS022-HIRE-DOC VALUE 'HIRE'.
- 88 PS022-STATUS-CHG-REPORT VALUE 'CHNG'.
- 88 PS022-SEPARATION-REPORT VALUE 'SEPR'.
- 88 PS022-SABBATICAL-REPORT VALUE 'SABB'.
- 88 PS022-LEAVE-REPORT VALUE 'LEAV'.
- 88 PS022-LAYOFF-REPORT VALUE 'LAYO'.
- 88 PS022-PERSONNEL-REPORT VALUE 'STND'.
- 88 PS022-BENEFITS-REPORT VALUE 'BENI'.
- 88 PS022-RETIREMENT-REPORT VALUE 'RETS'.
- 88 PS022-PERSONNEL2-REPORT VALUE 'STN2'.

PS028 (new)

PS028 will be the data structure for new web service PS028, the social security number fetch service.
PS028I01 (new)

PS028I01 is the input data structure for service PS028. It will be automatically generated from the wsdl.

PS028O01 (new)

PS028O01 is the output data structure for service PS028. It will be automatically generated from the wsdl.

**Bind Members**

**PS028 (new)**

This bind member contains bind statements for package PS028.

**Control Table Updates**

**UC0BUN**

The WEDC bundle will be added to the UC0BUN table with a single function, WEDB. Web service PS006 will set the function code to WEDC for a new hire process.

<table>
<thead>
<tr>
<th>BUN_SUBSYSTEM_ID</th>
<th>BUN_BUNDLE_NAME</th>
<th>BUN_BUNDLE_SEQ</th>
<th>BUN_FUNCTION_ID</th>
<th>BUN_PACKAGE_SEQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU</td>
<td>WEDC</td>
<td>1</td>
<td>WEDB</td>
<td>P</td>
</tr>
<tr>
<td>EU</td>
<td>WRHR</td>
<td>1</td>
<td>WEDB</td>
<td>P</td>
</tr>
</tbody>
</table>

**UC0CFN**

One row will be added to the UC0CFN table. Bundle WEDC will be used for all EDB update web calls, except for new hire which already uses WHIR.

<table>
<thead>
<tr>
<th>CFN_SUBSYSTEM_ID</th>
<th>CFN_FUNCTION_ID</th>
<th>CFN_CICS_TRAN_ID</th>
<th>CFN_DTL_SCRN_PGM</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU</td>
<td>WEDC</td>
<td>T001</td>
<td></td>
</tr>
<tr>
<td>EU</td>
<td>WRHR</td>
<td>T001</td>
<td></td>
</tr>
</tbody>
</table>

**Web Design**

**New EDB Update Front End Components**

**The PPSWEB Object**

The most significant JavaScript addition to the EDB Update application is the introduction of a PPSWEB object. This object is loaded on each page the user visits, and contains a number of user interface objects and front-end utilities common to the application. Items such as the navigation bar, prev/next/submit buttons, cancel/suspend/restore buttons, and modal dialog windows are defined and stored in this object.

Another important role of the PPSWEB object is to store the application's module, state, and action. These three variables are set upon each page load, and are used by various PPSWEB constructors to determine navigation logic of their various controls. These three properties are identified under the PPSWEB namespace as follows:

- PPSWEB.current_module
PPSWEB Constructors

There are several new JavaScript constructors responsible for building navigation elements in the application. Each constructor is a self-contained object with click events and other custom events built in. Many of them behave differently depending on the current module, state, and action. Each are namedpaced under PPSWEB.constructors and are defined in their own JavaScript files in WebContent/javascripts/constructors.

makeNavBar

The makeNavBar constructor works with the navbar.jsp tile to give custom UI functionality to the application's nav bar. Mouse rollover interactions, link inactivity vs activity, special href conditions on certain pages, are all handled by this constructor.

makeNavButtons

The makeNavButtons constructor controls which buttons are added to the lower right corner of the application's panels. Each button is defined and stored in the ppsweb.js file, but the makeNavButtons constructor determines which panels display which buttons.

makeModuleBar

The makeModuleBar constructor is responsible for displaying the appropriate module title, buttons, and identifying employee data for the transaction.

makeCollapsibleContainer

The makeCollapsibleContainer constructor is responsible for creating behaviors to the collapsible boxes on both the summary page and the con edits page. Collapsible containers on the summary page for the changes module are the most complex variety, as they allow users to toggle between new and old data (i.e. data that was changed during the current transaction). Additionally in this context, they automatically open only when an item in their group has been modified.

PPSWEB Utils

There are a few communal utilities in the PPSWEB namespace intended to DRY up the application's JavaScript. The PPSWEB utils object should be the repository for any additional utilities created in subsequent development efforts.

PPSWEB Modals

Whenever possible, modal text and button logic are stored in this single file. These modal objects are used in conjunction with the open_dialog utility in PPSWEB.utils.

JQuery 1.4.2

The version of jQuery has been upgraded from 1.3.2 to 1.4.2

JQuery UI Drag and Resizeable

The JQuery UI file was updated to include components for dragging and resizing modal dialog windows.

Conditional Individual Page Behaviors

A conditional statement has been added to each file in the javascripts/individual_page_behaviors directory to assure that code in those files are only executed if the appropriate panel is being visited. The PPSWEB.current_action identifier is used in the conditional statement.
**Obsolete Objects**

**WSDL Files on the Mainframe**

Since WSDLs no longer need to be deployed on the web server, and since it is not necessary to re-generate wsbind files for each instance of a web service, there is no longer a need to maintain a copy of WSDLs on the mainframe. They will be wholly contained within the web services jar and zip files.

Note that the PS002 (time reporting service) WSDL file is *not* obsolete because it is not associated with a PPS web application.

PR010
PS001
PS003
PS004
PS005
PS006
PS007
PS008
PS009
PS010
PS011
PS012
PS013
PS014
PS015
PS016
PS017
PS018
PS020
PS021
PS022
PS023
PS024
PS025
PS026
PS027

**WSDL Copies on the Web Server**

The copies of the wsdl files which reside on the web application server will be obsolete.
Web Server Custom Properties

The web server custom property “PPWS_WSDL_HOME” will be obsolete because it refers to the location of the wsdl copies which are also being made obsolete.

Middle Layer Component Changes

This release will introduce modules to model the different types of transactions the application supports. In addition to the previously released New Hire module, this release will add modules for Change Existing Employee Record and Rehire.

Struts Configuration

This release will add several new struts mapping files to configure the application’s implementation of the new modules. The new objects include:

New objects to support the new modules:
- EDBUpdate/src/main/java/change.xml
- EDBUpdate/src/main/java/rehire.xml

New object to encompass shared application mappings:
- EDBUpdate/src/main/java/edbupdate.xml

New object to enable IDOC printing from any module:
- EDBUpdate/src/main/java/jasper.xml

This release will move the struts externalized messages file to the shared action directory. All messages used by struts actions and struts template tags will be externalized in this file:
- EDBUpdate/src/main/java/edu/ucop/edbupdate/package.properties

This release will obsolete this object with the above move:
- EDBUpdate/src/main/java/edu/ucop/edbupdate/newhire/action/package.properties

Action Classes

This release will move the following action classes to a common shared directory to reuse as much code as possible:

- EDBUpdate/src/main/java/edu/ucop/edbupdate/action/AddressAndDisclosureAction.java
- EDBUpdate/src/main/java/edu/ucop/edbupdate/action/AppointmentsAction.java
- EDBUpdate/src/main/java/edu/ucop/edbupdate/action/AutofillPopulator.java
- EDBUpdate/src/main/java/edu/ucop/edbupdate/action/CancelTransactionAction.java
- EDBUpdate/src/main/java/edu/ucop/edbupdate/action/CitizenshipAndTaxesAction.java
- EDBUpdate/src/main/java/edu/ucop/edbupdate/action/ConsistencyCheckAction.java
- EDBUpdate/src/main/java/edu/ucop/edbupdate/action/EDBHelpAction.java
- EDBUpdate/src/main/java/edu/ucop/edbupdate/action/EditEmpIdentifyInfoAction.java
- EDBUpdate/src/main/java/edu/ucop/edbupdate/action/EducationAction.java
- EDBUpdate/src/main/java/edu/ucop/edbupdate/action/EmploymentInfoAction.java
- EDBUpdate/src/main/java/edu/ucop/edbupdate/action/ExternalLinkAction.java
- EDBUpdate/src/main/java/edu/ucop/edbupdate/action/IdocAction.java
- EDBUpdate/src/main/java/edu/ucop/edbupdate/action/IdocJasperAction.java
- EDBUpdate/src/main/java/edu/ucop/edbupdate/action/LoadEmpAction.java
- EDBUpdate/src/main/java/edu/ucop/edbupdate/action/NavBarAction.java
- EDBUpdate/src/main/java/edu/ucop/edbupdate/action/PayDispositionAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/action/PersonalInfoAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/action/PostAuthNotificationAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/action/RestoreAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/action/SelectEmpAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/action/StartEDBUpdate.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/action/SubmitEmployeeAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/action/SummaryAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/action/TerminateEDBUpdateAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/action/base/AbstractConfirmCancelAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/action/base/AbstractEditApptDistAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/action/base/EDBUpdateBaseAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/action/base/EditAppointmentAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/action/base/EditDistributionAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/action/base/NewhireBaseAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/action/base/StartEDBChangeAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/action/base/SubmitUpdatedEmployeeAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/action/base/UpdateConeditAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/interceptor/ChangeModuleInterceptor.java

The objects in the obsolete location include:

EDBUpdate/src/main/java/edu/ucop/edbupdate/newhire/action/AbstractEditApptDistAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/newhire/action/AddressAndDisclosureAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/newhire/action/AppointmentsAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/newhire/action/AutofillPopulator.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/newhire/action/CitizenshipAndTaxesAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/newhire/action/ConfirmIdocAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/newhire/action/ConsistencyCheckAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/newhire/action/EBDBaseHelpAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/newhire/action/EditAppointmentAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/newhire/action/EditDistributionAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/newhire/action/EducationAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/newhire/action/EmploymentInfoAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/newhire/action/GreetingsAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/newhire/action/IdocAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/newhire/action/IdocJasperAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/newhire/action/NavBarAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/newhire/action/PayDispositionAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/newhire/action/PersonalInfoAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/newhire/action/PostAuthNotificationAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/newhire/action/RestoreAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/newhire/action/SubmitEmployeeAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/newhire/action/SystemOverviewAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/newhire/action/TemplateAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/newhire/action/TerminateEDBUpdateAction.java

This release will add several abstract base classes that each module will extend to provide the custom behavior required for it:

EDBUpdate/src/main/java/edu/ucop/edbupdate/action/base/AbstractConfirmCancelAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/action/base/AbstractEditApptDistAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/action/base/EDBUpdateBaseAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/action/base/EditAppointmentAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/action/base/EditDistributionAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/action/base/NewhireBaseAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/action/base/StartEDBChangeAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/action/base/SubmitUpdatedEmployeeAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/action/base/UpdateConeditAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/interceptor/ChangeModuleInterceptor.java

The above EDBUpdateBaseAction will supersede and obsolete the previous release's base action class:

EDBUpdate/src/main/java/edu/ucop/edbupdate/newhire/action/base/NewhireBaseAction.java

This release will add action classes for each module that are unique to it. The new objects for the Change module will include:

EDBUpdate/src/main/java/edu/ucop/edbupdate/change/action/ChangeEditAppointmentAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/change/action/ChangeEditDistributionAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/change/action/ConfirmCancelAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/change/action/StartEDBChangeAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/change/action/SubmitUpdatedEmployeeAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/change/action/UpdateConeditAction.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/change/interceptor/ChangeModuleInterceptor.java
The New Hire module will add the following specific action classes:

- EDBUpdate/src/main/java/edu/ucop/edbupdate/newhire/action/NewHireConeditAction.java
- EDBUpdate/src/main/java/edu/ucop/edbupdate/newhire/action/NewHireEditAppointmentAction.java
- EDBUpdate/src/main/java/edu/ucop/edbupdate/newhire/action/NewHireEditDistributionAction.java
- EDBUpdate/src/main/java/edu/ucop/edbupdate/newhire/action/SubmitNewHireAction.java

The Rehire module will add the following specific action classes:

- EDBUpdate/src/main/java/edu/ucop/edbupdate/rehire/action/ConfirmCancelAction.java
- EDBUpdate/src/main/java/edu/ucop/edbupdate/rehire/action/RehireConeditAction.java
- EDBUpdate/src/main/java/edu/ucop/edbupdate/rehire/action/SelectEmpForRehireAction.java
- EDBUpdate/src/main/java/edu/ucop/edbupdate/rehire/action/StartEDBRehireAction.java
- EDBUpdate/src/main/java/edu/ucop/edbupdate/rehire/action/SubmitRehireEmployeeAction.java

**Interceptors**

This release will add two struts interceptors, one to prevent a user from accessing any other application module while in a transaction, and an interceptor to log unexcepted exceptions. The new locations of these objects are:

- EDBUpdate/src/main/java/edu/ucop/edbupdate/interceptor/CrossModuleNavigationInterceptor.java
- EDBUpdate/src/main/java/edu/ucop/edbupdate/interceptor/IllegalStateInterceptor.java
- EDBUpdate/src/main/java/edu/ucop/edbupdate/interceptor/ReferenceNumberExceptionLoggingHandler.java

The CrossModuleNavigationInterceptor will require each module to subclass so that they can return the expected module. This release will add a new Java enum class with an entry for each module of the application to support the new interceptor. The new object will be located at:

- EDBUpdate/src/main/java/edu/ucop/edbupdate/Module.java

The ReferenceNumberExceptionLoggingHandler will log all unexpected exceptions, and generate a 5 digit reference number for display to the user, instead of displaying the exception stack trace. Stack trace will be available in the server’s log and can be identified using the reference number. Each reference number will be prefaced with a two letter code indicating the module that the user was in. The codes will be as follows:

- CH: Change
- NH: New Hire
- RH: Rehire

The new release will obsolete the following object, which will be replaced by the shared IllegalStateInterceptor listed above.

- EDBUpdate/src/main/java/edu/ucop/edbupdate/newhire/interceptor/IllegalStateInterceptor.java

This release will add a module check interceptor subclass for the Change module:

- EDBUpdate/src/main/java/edu/ucop/edbupdate/change/interceptor/ChangeModuleInterceptor.java

This release will add a module check interceptor subclass for new hire:

- EDBUpdate/src/main/java/edu/ucop/edbupdate/newhire/interceptor/NewhireModuleInterceptor.java

This release will add a module check interceptor subclass for Rehire:

- EDBUpdate/src/main/java/edu/ucop/edbupdate/rehire/interceptor/RehireModuleInterceptor.java

**Business Delegates**

This release will move all web service business delegate classes to a common shared directory:

- EDBUpdate/src/main/java/edu/ucop/edbupdate/delegate/ApplicationParamLookupDelegate.java
- EDBUpdate/src/main/java/edu/ucop/edbupdate/delegate/BrowseDelegate.java
- EDBUpdate/src/main/java/edu/ucop/edbupdate/delegate/CancelDelegate.java
- EDBUpdate/src/main/java/edu/ucop/edbupdate/delegate/ConeditDelegate.java
- EDBUpdate/src/main/java/edu/ucop/edbupdate/delegate/DocumentServiceDelegate.java
Domain Objects

This release will add a new field and a new method to the domain object that models data elements to support the detection of a user-edited value. The new field will hold the original value as loaded by PS001, and the new method, isChanged(), will determine if the current value differs from the original value. The Change and Rehire modules will use this logic to determine which data elements should be included in any service request to the range/value, consistency check, and submit services.

The previous releases's Employee class, which models the employee record in the application, will become abstract. This release will add two subclasses that model behavior necessary for different modules.

The new location for the abstract class will be:

EDBUpdate/src/main/java/edu/ucop/edbupdate/domain/base/Employee.java

The obsolete location object is:

EDBUpdate/src/main/java/edu/ucop/edbupdate/domain/Employee.java

This release will add two subclasses of this object, a class to model existing data, and a New Hire version to model a record being added by the new hire process.

The Change and Rehire modules will use the following class:

EDBUpdate/src/main/java/edu/ucop/edbupdate/domain/existing/ExistingEmployee.java

This class will include a method to build an instance of the class from the data structures returned by the PPSWebServices load employee service (PS001 and the EmployeeAdapter interface). It will also modify the method to prepare all data
Newhire will use the following subclass of the Employee class. It always includes all data elements for the above listed submit service requests:

```
EDBUpdate/src/main/java/edu/ucop/edbupdate/domain/newhire/NewHireEmployee.java
```

The domain object that models an employee's set of appointments will be renamed and made abstract. Application modules will extend this class as needed to provide required behavior.

The obsolete name for this object is:

```
EDBUpdate/src/main/java/edu/ucop/edbupdate/domain/AppointmentsSet.java
```

The new name for it is:

```
EDBUpdate/src/main/java/edu/ucop/edbupdate/domain/AbstractAppointmentsSet.java
```

This release will add two subclasses of this class, one used by Rehire and Change, and another used by New Hire.

The New Hire version will be:

```
EDBUpdate/src/main/java/edu/ucop/edbupdate/domain/NewHireAppointmentSet.java
```

The version used by Change and Rehire will be:

```
EDBUpdate/src/main/java/edu/ucop/edbupdate/domain/UpdateAppointmentSet.java
```

The behavior difference between these classes will be that when removing an appointment from the update version, if the appointment is currently on the EDB, the application will send the proper delete data element to signal the backend that the appointment should be deleted.

To better reflect the nature of the data element class used to model employee level action codes, the follow object will be renamed and become obsolete:

```
EDBUpdate/src/main/java/edu/ucop/edbupdate/domain/AppendingOccurrenceKeyDataElement.java
```

The new class name of this object will be:

```
EDBUpdate/src/main/java/edu/ucop/edbupdate/domain/EmployeeLevelActionCodeDataElement.java
```

To support the requirement to add up to three action codes to any appointment or distribution edit, the application will two new domain classes that extend the base EDBUpdateDataElementInfo class:

```
EDBUpdate/src/main/java/edu/ucop/edbupdate/domain/AppointmentActionCode.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/domain/DistributionActionCode.java
```

This release will add other data element subclasses to aid in formatting stored data:

```
EDBUpdate/src/main/java/edu/ucop/edbupdate/domain/FormatApptPayRateDataElement.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/domain/FormatDistRateAmountDataElement.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/domain/FormatLongPercentDataElement.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/domain/FormatMonthYearDateDataElement.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/domain/FormatShortPercentDataElement.java
```

This release will also add a special data element that will submit its value to the conedit and submit services in all cases. The application will use this data element to store the employee change timestamp, a required field for all conedit and submit service requests in the Change and Rehire modules:

```
EDBUpdate/src/main/java/edu/ucop/edbupdate/domain/MustSubmitDataElement.java
```

This release will move the following class to the domain package, since it will be shared by all modules, and it models a set of business data. The new location will be:

```
EDBUpdate/src/main/java/edu/ucop/edbupdate/domain/ConeditDisplayItem.java
```

This move will make this location obsolete:
This release will add two new data element subclasses that format stored dates:

EDBUpdate/src/main/java/edu/ucop/edbupdate/domain/DateFormattingParentElemOccurKeyDataElem.java

To support deletion of non-employee level data (appointments, distributions, and licenses), the application will add a special data element that always returns the deletions code as its related data ('X'):

EDBUpdate/src/main/java/edu/ucop/edbupdate/domain/DeleteDataElement.java

This release will re-factor the non-employee-level domain objects that model appointments, distributions, and licenses in order to reflect the need to load from stored data in the Change and Rehire modules.

Classes made obsolete by this refactoring will include:

EDBUpdate/src/main/java/edu/ucop/edbupdate/domain/EDBUpdateAppointmentImpl.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/domain/EDBUpdateDistributionImpl.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/domain/AbstractRecurringDomainType.java

This release will add the following classes to handle the distinction between New Hire non-employee level domain objects and existing domain objects:

EDBUpdate/src/main/java/edu/ucop/edbupdate/domain/ExistingLicenseImpl.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/domain/base/AbstractAppointmentImpl.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/domain/base/AbstractDistributionImpl.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/domain/base/AbstractRecurringDomainType.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/domain/existing/ExistingApptImpl.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/domain/existing/ExistingDistImpl.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/domain/newhire/NewHireApptImpl.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/domain/newhire/NewHireDistributionImpl.java

The Existing versions of these classes will include constructors that take data as returned by the PPSWebServcies EmployeeAdapter implementation, and will use the data element isChanged() method to determine if a data element should be included in range/value, conedit, and submit requests. The New Hire versions will continue to behave as the obsolete versions from the previous release.

Utility Classes

All utility classes will also move to a common shared package. The new location objects will include:

EDBUpdate/src/main/java/edu/ucop/edbupdate/util/ApplicationPropertiesLoader.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/util/ApplicationPropertyStore.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/util/AppointmentComparator.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/util/CampusCustomizationData.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/util/CampusCustomizationDataImpl.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/util/CodeTranslationPairImpl.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/util/DataElementMetadataManager.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/util/DateUtils.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/util/DistributionComparator.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/util/ITranslationService.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/util/PercentageHelper.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/util/PivotFieldInfo.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/util/SeverityLevel.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/util/SuspendSessionStruct.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/util/Version.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/util/WebServiceCodeTranslationService.java

The obsolete location items include:

EDBUpdate/src/main/java/edu/ucop/edbupdate/newhire/util/ApplicationPropertiesLoader.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/newhire/util/ApplicationPropertyStore.java
This release will combine the screen level check performed by the following object with the UserAuthorizationDelegate, making it obsolete:

    EDBUpdate/src/main/java/edu/ucop/edbupdate/util/ScreenLevelSecurity.java

**Page Templates**

The application will reuse as many templates from the previous release as possible. The following templates will be shared in common between all modules. They will be stored in a directory tree named "common" to indicate this shared nature:

    EDBUpdate/jsp/common/edbHelp.jsp
    EDBUpdate/jsp/common/success.html
    EDBUpdate/jsp/common/appts_and_dists/add_appointment.jsp
    EDBUpdate/jsp/common/appts_and_dists/add_distribution.jsp
    EDBUpdate/jsp/common/appts_and_dists/max_reached_appt_or_dist.jsp
    EDBUpdate/jsp/common/appts_and_dists/saved_appointment.jsp
    EDBUpdate/jsp/common/appts_and_dists/saved_distribution.jsp
    EDBUpdate/jsp/common/appts_and_dists/selectAppointment.jsp
    EDBUpdate/jsp/common/appts_and_dists/show_appointment.jsp
    EDBUpdate/jsp/common/appts_and_dists/show_distribution.jsp
    EDBUpdate/jsp/common/employeeEntry/add_reviewer.jsp
    EDBUpdate/jsp/common/employeeEntry/addedLicense.jsp
    EDBUpdate/jsp/common/employeeEntry/address_and_disclosures.jsp
    EDBUpdate/jsp/common/employeeEntry/appointments_and_distributions.jsp
    EDBUpdate/jsp/common/employeeEntry/assigned_id.jsp
    EDBUpdate/jsp/common/employeeEntry/cancel_intervening_update.jsp
    EDBUpdate/jsp/common/employeeEntry/citizenship_and_taxes.jsp
    EDBUpdate/jsp/common/employeeEntry/conedit.jsp
    EDBUpdate/jsp/common/employeeEntry/conedit_rve.jsp
    EDBUpdate/jsp/common/employeeEntry/conedit_rve.jsp
    EDBUpdate/jsp/common/employeeEntry/confirm_cancel.jsp
    EDBUpdate/jsp/common/employeeEntry/confirm_idoc.jsp
    EDBUpdate/jsp/common/employeeEntry/confirm_suspend.jsp
    EDBUpdate/jsp/common/employeeEntry/confirmation.jsp
    EDBUpdate/jsp/common/employeeEntry/create_new_template.jsp
    EDBUpdate/jsp/common/employeeEntry/education.jsp
    EDBUpdate/jsp/common/employeeEntry/employee_identification.jsp
    EDBUpdate/jsp/common/employeeEntry/employee_identificationLocked.jsp
    EDBUpdate/jsp/common/employeeEntry/employment_information.jsp
    EDBUpdate/jsp/common/employeeEntry(existing_edb_match.jsp
    EDBUpdate/jsp/common/employeeEntry/exit_t_i_match.jsp
    EDBUpdate/jsp/common/employeeEntry/id_no_longer_available.jsp
The corresponding objects in their obsolete locations include:

- EDBUpdate/newhire/jsp/edbHelp.jsp
- EDBUpdate/newhire/jsp/sucess.html
- EDBUpdate/newhire/jsp/appts_and_dist_add_appointment.jsp
- EDBUpdate/newhire/jsp/appts_and_dist_add_distribution.jsp
- EDBUpdate/newhire/jsp/appts_and_dist_max_reached_app_or_dist.jsp
- EDBUpdate/newhire/jsp/appts_and_dist_saved_appointment.jsp
- EDBUpdate/newhire/jsp/appts_and_dist_saved_distribution.jsp
- EDBUpdate/newhire/jsp/appts_and_dist_selectAppointment.jsp
- EDBUpdate/newhire/jsp/appts_and_dist_show_appointment.jsp
- EDBUpdate/newhire/jsp/appts_and_dist_show_distribution.jsp
- EDBUpdate/newhire/jsp/employeeEntry/add_reviewer.jsp
- EDBUpdate/newhire/jsp/employeeEntry/address_and_disclosures.jsp
- EDBUpdate/newhire/jsp/employeeEntry/appointments_and_distributions.jsp
- EDBUpdate/newhire/jsp/employeeEntry/assigned_id.jsp
- EDBUpdate/newhire/jsp/employeeEntry/citizenship_and_taxes.jsp
- EDBUpdate/newhire/jsp/employeeEntry/conedit.jsp
- EDBUpdate/newhire/jsp/employeeEntry/conedit_rve.jsp
- EDBUpdate/newhire/jsp/employeeEntry/confirm_cancel.jsp
- EDBUpdate/newhire/jsp/employeeEntry/confirm_idoc.jsp
- EDBUpdate/newhire/jsp/employeeEntry/confirm_suspend.jsp
- EDBUpdate/newhire/jsp/employeeEntry/create_new_template.jsp
- EDBUpdate/newhire/jsp/employeeEntry/education.jsp
- EDBUpdate/newhire/jsp/employeeEntry/employee_identification.jsp
- EDBUpdate/newhire/jsp/employeeEntry/employee_identification_locked.jsp
- EDBUpdate/newhire/jsp/employeeEntry/employment_information.jsp
- EDBUpdate/newhire/jsp/employeeEntry/existing_edb_match.jsp
- EDBUpdate/newhire/jsp/employeeEntry/existing_iid_match.jsp
- EDBUpdate/newhire/jsp/employeeEntry/id_no_longer_available.jsp
- EDBUpdate/newhire/jsp/employeeEntry/idoc.jsp
- EDBUpdate/newhire/jsp/employeeEntry/iid_error.jsp
- EDBUpdate/newhire/jsp/employeeEntry/iid_matches_found.jsp
- EDBUpdate/newhire/jsp/employeeEntry/iid_validation_errors.jsp
- EDBUpdate/newhire/jsp/employeeEntry/list_suspended_sessions.jsp
- EDBUpdate/newhire/jsp/employeeEntry/list_templates.jsp
- EDBUpdate/newhire/jsp/employeeEntry/panHtml.jsp
- EDBUpdate/newhire/jsp/employeeEntry/pan_directory_list.jsp
- EDBUpdate/newhire/jsp/employeeEntry/pay_disposition.jsp
- EDBUpdate/newhire/jsp/employeeEntry/personal_information.jsp
- EDBUpdate/newhire/jsp/employeeEntry/post_auth_notification.jsp
- EDBUpdate/newhire/jsp/employeeEntry/restore_screen_link.jsp
- EDBUpdate/newhire/jsp/employeeEntry/select_recipient.html
- EDBUpdate/newhire/jsp/employeeEntry/summary.jsp
- EDBUpdate/newhire/jsp/employeeEntry/system_overview.jsp
- EDBUpdate/newhire/jsp/employeeEntry/template_data.jsp
- EDBUpdate/newhire/jsp/error/soapFaultError.jsp
- EDBUpdate/newhire/jsp/error/uncaughtException.jsp
- EDBUpdate/newhire/jsp/tiles/add_lic.jsp
- EDBUpdate/newhire/jsp/tiles/appointment_table.jsp
- EDBUpdate/newhire/jsp/tiles/blank.jsp
- EDBUpdate/newhire/jsp/tiles/body.jsp
- EDBUpdate/newhire/jsp/tiles/bodyHeader.jsp
- EDBUpdate/newhire/jsp/tiles/conedit_error.jsp
- EDBUpdate/newhire/jsp/tiles/conedit_messages.jsp
This release will add a subdirectory for templates unique to each module. The Edit Existing Employee Record module will add the following template objects:

- EDBUpdate/jsp/change/select_emp.jsp
- EDBUpdate/jsp/change/ajax/json_browse.jsp

### Review Screen Changes

This release will load each input form for a given consistency edit at the point the user clicks on the "Fix" button, instead of loading all forms at the point the review screen is loaded. This change will apply to all application modules.

### IDOC Print Support

This release will add a new IDOC-related jasperreports template and its associated binary for landscape items:

- EDBUpdate/JReports/IdocDocumentLandscape.jasper
- EDBUpdate/jrxml/IdocDocumentLandscape.jrxml

### Images

This release will externalize the campus logo image file. The application will attempt to find a file named specifically "logo.png" from the EDBUPDATE_PROPERTY_HOME directory. If this file exists, the application will copy this file into the context root images/ subdirectory. This change will obsolete the following previously released image files:

- EDBUpdate/images/campus_logos/ucd-logo.png
- EDBUpdate/images/campus_logos/uci-logo.png
- EDBUpdate/images/campus_logos/ucla-logo.png
- EDBUpdate/images/campus_logos/ucr-logo.png
- EDBUpdate/images/campus_logos/ucsb-logo.png
- EDBUpdate/images/campus_logos/ucsd-logo.png

This release will move all its images into one directory under the context root:

- EDBUpdate/images/appt-dist-action-icon-iii.png
The moved images will include:

EDBUpdate/stylesheets/jquery-ui-custom-theme/images/appt-dist-action-icon-iii.png
EDBUpdate/stylesheets/jquery-ui-custom-theme/images/appt-dist-action-icon.png
EDBUpdate/stylesheets/jquery-ui-custom-theme/images/ui-flat_0_aaaaaa_40x100.png
EDBUpdate/stylesheets/jquery-ui-custom-theme/images/ui-flat_55_fffe1_40x100.png
EDBUpdate/stylesheets/jquery-ui-custom-theme/images/ui-glass_75_d0e5f5_1x400.png
EDBUpdate/stylesheets/jquery-ui-custom-theme/images/ui-glass_85_dfffe1_1x400.png
EDBUpdate/stylesheets/jquery-ui-custom-theme/images/ui-glass_95_fef1ec_1x400.png
EDBUpdate/stylesheets/jquery-ui-custom-theme/images/ui-glass_95_green_1x400.png
EDBUpdate/stylesheets/jquery-ui-custom-theme/images/ui-glass-wave_55_5c9ccc_500x100.png
EDBUpdate/stylesheets/jquery-ui-custom-theme/images/ui-inset-hard_100_f58f9_1x100.png
EDBUpdate/stylesheets/jquery-ui-custom-theme/images/ui-inset-hard_100_ftfdff_1x100.png
EDBUpdate/stylesheets/jquery-ui-custom-theme/images/ui-icons_00539d_256x240.png
EDBUpdate/stylesheets/jquery-ui-custom-theme/images/ui-icons_018203_256x240.png
EDBUpdate/stylesheets/jquery-ui-custom-theme/images/ui-icons_217bc0_256x240.png
EDBUpdate/stylesheets/jquery-ui-custom-theme/images/ui-icons_2e83ff_256x240.png
EDBUpdate/stylesheets/jquery-ui-custom-theme/images/ui-icons_6da8d5_256x240.png
EDBUpdate/stylesheets/jquery-ui-custom-theme/images/ui-icons_cd0a0a_256x240.png
EDBUpdate/stylesheets/jquery-ui-custom-theme/images/ui-icons_d8e7f3_256x240.png
EDBUpdate/stylesheets/jquery-ui-custom-theme/images/ui-icons_f9bd01_256x240.png

This release will no longer require a duplicate copy of application images under the prod directory. The obsolete image objects include:

EDBUpdate/stylesheets/prod/images/appt-dist-action-icon-iii.png
EDBUpdate/stylesheets/prod/images/appt-dist-action-icon.png
EDBUpdate/stylesheets/prod/images/ui-flat_0_aaaaaa_40x100.png
EDBUpdate/stylesheets/prod/images/ui-flat_55_fffe1_40x100.png
EDBUpdate/stylesheets/prod/images/ui-glass_75_d0e5f5_1x400.png
EDBUpdate/stylesheets/prod/images/ui-glass_85_dfffe1_1x400.png
EDBUpdate/stylesheets/prod/images/ui-glass_95_fef1ec_1x400.png
EDBUpdate/stylesheets/prod/images/ui-glass_95_green_1x400.png
EDBUpdate/stylesheets/prod/images/ui-glass-wave_55_5c9ccc_500x100.png
EDBUpdate/stylesheets/prod/images/ui-inset-hard_100_f58f9_1x100.png
EDBUpdate/stylesheets/prod/images/ui-inset-hard_100_ftfdff_1x100.png
EDBUpdate/stylesheets/prod/images/ui-icons_00539d_256x240.png
Javascript

This release upgrade jQuery to version 1.4.2. The new object will be:

EDBUpdate/javascripts/jquery-1.4.2.min.js

The object obsoleted by this upgrade will be:

EDBUpdate/javascripts/jquery-1.3.2.min.js no longer exists, no comparison available

The application will add the following javascript files:

EDBUpdate/javascripts/ppsweb.js
EDBUpdate/javascripts/constructors/makeCollapsibleContainer.js
EDBUpdate/javascripts/constructors/makeModuleBar.js
EDBUpdate/javascripts/constructors/makeNavBar.js
EDBUpdate/javascripts/constructors/makeNavButtons.js
EDBUpdate/javascripts/plugins/jquery.actionCodeSelect.js
EDBUpdate/javascripts/individual_page_behaviors/selectEmp.js

CSS Stylesheets

This release will move all stylesheets to one directory tree under the context root:

EDBUpdate/stylesheets/appts-and-dists.css
EDBUpdate/stylesheets/edb-update.css
EDBUpdate/stylesheets/help.css
EDBUpdate/stylesheets/jquery-ui-1.7.2.custom.css
EDBUpdate/stylesheets/jquery-ui-addons.css
EDBUpdate/stylesheets/pan.css

Objects that will be obsoleted by this move include:

EDBUpdate/newhire/stylesheets/appts-and-dists.css
EDBUpdate/newhire/stylesheets/help.css
EDBUpdate/newhire/stylesheets/new-hire.css
EDBUpdate/newhire/stylesheets/pan.css
EDBUpdate/stylesheets/jquery-ui-custom-theme/jquery-ui-1.7.2.custom.css
EDBUpdate/stylesheets/jquery-ui-custom-theme/jquery-ui-addons.css

Minified Production Files

The minimized CSS and JS files will be re-factored to reside in a new directory, with a new naming scheme. These objects will become obsolete:

EDBUpdate/newhire-min.css
EDBUpdate/javascripts/prod/newhire-min-1.1.001.js

The new location and names for these objects will be:

EDBUpdate/prod/edbupdate-min-[rel #].css
As in the previous release, the name will continue to include the current release number as a means to ensure the client browser does not pull an out-of-date version from its cache.

**Deployment Tools**

In order to support automated builds, the application will add a non-distributed binary directory, and store a required deployment tool library there. The new object stored there will be the javascript and stylesheet compressor used to compress production versions of the application's javascript and stylesheet codebase.

EDBUpdate/bin/yuicompressor-2.4.2.jar

This release will revise the ant build script to automate the acquisition of the latest version programmatically, and manage the compressed files (delete previous versions before creating new versions).

**Help**

This release will add help files for the following new data elements:

**Original Date of Hire**

EDBUpdate/src/main/java/edu/ucop/edbupdate/help/0201.txt
EDBUpdate/src/main/java/edu/ucop/edbupdate/help/0206.txt
EDBUpdate/src/main/java/edu/ucop/edbupdate/help/0207.txt
EDBUpdate/src/main/java/edu/ucop/edbupdate/help/0210.txt
EDBUpdate/src/main/java/edu/ucop/edbupdate/help/0225.txt
EDBUpdate/src/main/java/edu/ucop/edbupdate/help/0226.txt
EDBUpdate/src/main/java/edu/ucop/edbupdate/help/0230.txt
EDBUpdate/src/main/java/edu/ucop/edbupdate/help/0246.txt
EDBUpdate/src/main/java/edu/ucop/edbupdate/help/0301.txt
EDBUpdate/src/main/java/edu/ucop/edbupdate/help/0302.txt
EDBUpdate/src/main/java/edu/ucop/edbupdate/help/0303.txt
EDBUpdate/src/main/java/edu/ucop/edbupdate/help/0304.txt
EDBUpdate/src/main/java/edu/ucop/edbupdate/help/0305.txt
EDBUpdate/src/main/java/edu/ucop/edbupdate/help/0308.txt
EDBUpdate/src/main/java/edu/ucop/edbupdate/help/0309.txt
EDBUpdate/src/main/java/edu/ucop/edbupdate/help/0310.txt
EDBUpdate/src/main/java/edu/ucop/edbupdate/help/0311.txt
EDBUpdate/src/main/java/edu/ucop/edbupdate/help/0312.txt
EDBUpdate/src/main/java/edu/ucop/edbupdate/help/0331.txt
EDBUpdate/src/main/java/edu/ucop/edbupdate/help/0332.txt
EDBUpdate/src/main/java/edu/ucop/edbupdate/help/0333.txt
EDBUpdate/src/main/java/edu/ucop/edbupdate/help/0334.txt
EDBUpdate/src/main/java/edu/ucop/edbupdate/help/0335.txt
EDBUpdate/src/main/java/edu/ucop/edbupdate/help/0704.txt
EDBUpdate/src/main/java/edu/ucop/edbupdate/help/0705.txt
EDBUpdate/src/main/java/edu/ucop/edbupdate/help/0711.txt
EDBUpdate/src/main/java/edu/ucop/edbupdate/help/1124.txt
EDBUpdate/src/main/java/edu/ucop/edbupdate/help/appt_dist_action_code.txt

**Appointment or Distribution action Code**

EDBUpdate/src/main/java/edu/ucop/edbupdate/help/appt_dist_action_code.txt

**Custom Taglib**

This release will add a custom taglib to support display of the differences between the stored data for an employee and the current changes entered by the user. This release will add this tag library descriptor object to support this:
EDBUpdate/WEB-INF/EDBUpdate-tags/summary-tags.tld

This release will add several classes supporting the custom summary taglib. The new objects include:

EDBUpdate/src/main/java/edu/ucop/edbupdate/util/taglib/ApptFieldSummaryTag.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/util/taglib/BaseSummaryTag.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/util/taglib/DistFieldSummaryTag.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/util/taglib/EmpFieldSummaryTag.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/util/taglib/FauSummaryTag.java
EDBUpdate/src/main/java/edu/ucop/edbupdate/util/taglib/LicenseFieldSummaryTag.java

Other Web Objects

These standard default response objects, formerly stored under the newhire subdirectory, will move to the context root:

EDBUpdate/newhire/404.html
EDBUpdate/newhire/422.html
EDBUpdate/newhire/500.html
EDBUpdate/newhire/favicon.ico
EDBUpdate/newhire/index.html
EDBUpdate/newhire/robots.txt

Corresponding new objects:

EDBUpdate/404.html
EDBUpdate/422.html
EDBUpdate/500.html
EDBUpdate/favicon.ico
EDBUpdate/robots.txt
EDBUpdate/index.html

Extraneous Obsolete Objects

The following example code items inadvertently included with the last release will become obsolete:

EDBUpdate/WEB-INF/src/java/example.xml
EDBUpdate/WEB-INF/src/java/example/ExampleSupport.java
EDBUpdate/WEB-INF/src/java/example/HelloWorld.java
EDBUpdate/WEB-INF/src/java/example/Login-validation.xml
EDBUpdate/WEB-INF/src/java/example/Login.java
EDBUpdate/WEB-INF/src/java/example/package.properties
EDBUpdate/WEB-INF/src/java/example/package_es.properties

The following related non-code objects will also become obsolete with the exclusion of the above example items:

EDBUpdate/src/main/java/example/Login-validation.xml
EDBUpdate/src/main/java/example/package.properties
EDBUpdate/src/main/java/example/package_es.properties

This release will upgrade jquery to version 1.4.2. The following older version will become obsolete:

EDBUpdate/javascripts/jquery-1.3.2.min.js

The following example template will be excluded from the new release and become obsolete:

EDBUpdate/newhire/Greetings.jsp

This release will not include the following unnecessary wsdl files, since all PPS Web Service maintains its own library of WDSLs:

EDBUpdate/newhire/wsdls/PS010.wsdl
EDBUpdate/newhire/wsdls/PS013.wsdl
EDBUpdate/newhire/wsdls/PS015.wsdl