This release addresses the following Error Reports:

**Error Report 2252**

As of release 1873 the PPS Logon web page is dependent on web service PS010 for password verification and change. There is a dilemma in this architecture since web service PS010 is only available when the campus CICS PPS region is up. However, the PAN and Web Merit applications are on the Main Menu and would be available when the campus CICS PPS region is down – If the user could logon.
**Error Report 2268**

Currently web EDBInquiry retrieves control data from PPS at the application start-up. This may lead to incorrect data processing if the control data is obsolete. EDBInquiry needs to retrieve control data on a daily basis. The following data is retrieved at this time:
1. System control date
2. Retirement Gross To Net
3. Labor Gross To Net

**Summary of Changes**

New logon process established by this release
This release addresses Error report 2252 by changing the deployment of Web Services PS010 and PS020; by this release, PS010 and PS020 are deployed to a 24x7 CICS region. The WSDL files for PS010 and PS020 are modified to specify their location (a.k.a. endpoint) to be in a 24x7 CICS region.

As of this release all WSDL files deployed for use by Web Applications that use services PS010 or PS020 must be replaced by the files provided in this release.

Daily refresh of control data
This release addresses Error report 2268 by modifying web EDBInquiry to retrieve control data on a daily basis.

**Technical Note**

In releases 1873, 1881 and 1884, PPSWeb and EDBInquiry were packaged together in a single .ear file, PPSWebAppsEAR.ear. Source code was released in a single archive file, PPSWebApps.zip. Starting with this release, each application will be packaged in a separate .ear file and the source code in a separate .zip archive.

**Programs**

**PPWEBSEC**
PPWEBSEC is the web security interface program for web services. It is invoked as part of the SOAP header processing. It validates and processes the user data and certificates. It was modified as follows:

Switch user id to the one passed to PS020 (i.e. s020i_user_id) rather than the one associated with a token when PS020 is the requested service, suppress token processing when PS020 is the requested service.

**PPXMLPRS**
PPXMLPRS parses XML for PPS web services. It locates the user ID, password and/or token tags and returns them to the calling program, PPWEBSEC. It was modified as follows:

Capture s020i_user_id and return to caller.

**PR010 (new)**
PR010 is the main processing program for the login web service, PR010. This program makes a web service request to web service PS010 in the CICS region designated in commarea item LK-HOST.

**PS010**
PS010 is the main processing program for the login web service, PS010. This program verifies a user ID and password, or process a change password request. It was modified as follows:
Apply function upper-case to s010-user-id to assure that stored user ids are always upper case. Add campus id as required input to determine the host name of the campus PPS CICS region since all logon requests that pass through a 24x7 CICS region must be completed in the campus region if possible.

Note: This program invokes another instance of itself in another region via web service requester PR010. The target region is the CICS region designated by a successful search of the table of PPS campus regions found in copymember CPWSHOST.

PS010D
PS010D is the RAD-generated Converter Driver program which is invoked by the web service. It was re-generated for this release.

PS020
PS020 is the driver program for the PS020 Web Service, which checks function-level RACF security. It was modified as follows:

Replace token with userid in input. Issue a SOAPFAULT if s020i_user_id is not > space.

Copy Members

CPWSHOST (new)
CPWSHOST is a table of “campus ids” and the corresponding URL for the CICS region hosting PPS Web Services.

PR010 (new)
PR010 is the data structure for web service PR010 which makes web service requests to web service PS010.

PR010I01 (new)
PR010I01 is automatically generated in RADZ from the PR020 WSDL.

PR010O01 (new)
PR010O01 is automatically generated in RADZ from the PR020 WSDL.

PS010
PS010 is the data structure for web service PS010 which authenticates a user and establishes a token. It was modified as follows: “Campus id” was added to the input to PS010 to allow determination of the URL needed to pass to PR010 in commarea item LK-HOST.

PS020
PS020 is the data structure for web service PS020 which checks function-level RACF security. It was modified as follows: The logged on user’s token was removed from the input and replaced by the user’s userid.

PS020I01
PS020I01 is automatically generated in RADZ from the PS020 WSDL. It was regenerated for this release.

PS020O01
PS020O01 is automatically generated in RADZ from the PS020 WSDL. It was regenerated for this release.
**WSDL Files**

PR010 (new)
PR010 is the WSDL for web service PR010 which makes web service requests to web service PS010.

PS010
PS010 is the WSDL for web service PS010. It was modified as follows:
“Campus id” was added to the input to PS010.

PS020
PS020 is the WSDL for web service PS020. It was modified as follows:
The logged on user’s token was removed from the input and replaced by the user’s userid.

**XML Members**

PPSRPIPE (new)
PPSRPIPE is the XML needed for pipeline configuration of a requester pipeline.

PPSSOAP
PPSSOAP is the XML needed for pipeline configuration of a provider pipeline. It has been modified to support binary attachments to SOAP messages.

**PPSWebService Application**

**Java Programs**

AppParamLookupFacadeImpl.java
AppParamLookupFacadeImpl.java loads CTT table entries for the web new hire system. It has been changed to log more descriptive messages in case the web service encounters an exception.

CancelFacadeImpl.java
CancelFacadeImpl.java is used when user chooses to cancel a web new hire transaction. It has been changed to log more descriptive messages in case the web service encounters an exception.

DocumentFacadeImpl.java
DocumentFacadeImpl.java is used to generate IDOC in the web new hire application. It has been changed to log more descriptive messages in case the web service encounters an exception.

PanFacadeImpl.java
PanFacadeImpl.java is used to process post-authorization notice in the web new hire application. It has been changed to log more descriptive messages in case the web service encounters an exception.

PPSWSConEditFacadeImpl.java
PPSWSConEditFacadeImpl.java is used to perform consistency edits in the web new hire application. It has been changed to log more descriptive messages in case the web service encounters an exception.
PPSWSRangeValueEditFacadeImpl.java

PPSWSRangeValueEditFacadeImpl.java is used to perform range value edits in the web new hire application. It has been changed to log more descriptive messages in case the web service encounters an exception.

SubmitEmpFacadeImpl.java

SubmitEmpFacadeImpl.java is used by web new hire application to submit the employee to EDB database. It has been changed to log more descriptive messages in case the web service encounters an exception.

SuspendFacadeImpl.java

SuspendFacadeImpl.java is used by the web new hire application to suspend/restore a new hire transaction. It has been changed to log more descriptive messages in case the web service encounters an exception.

TemplateFacadeImpl.java

TemplateFacadeImpl.java is used by the web new hire application to manage various templates created by users. It has been changed to log more descriptive messages in case the web service encounters an exception.

TokenServiceFacade.java

TokenServiceFacade.java is used by the PPS web application to retrieve a valid token number from CICS. It has been changed to accept campus Id as a parameter to identify the target CICS region.

TokenServiceFacadeImpl.java

TokenServiceFacadeImpl.java is used by the PPS web application to retrieve a valid token number from CICS. It has been changed to accept campus Id as a parameter to identify the target CICS region. It has also been changed to log more descriptive messages in case the web service encounters an exception.

UserAuthorizationFacade.java

UserAuthorizationFacade.java is used by the PPS web application to validate user’s access at application and screen levels. It has been changed to use user Id instead of token number as parameter.

UserAuthorizationFacadeImpl.java

UserAuthorizationFacadeImpl.java is used by the PPS web application to validate user’s access at application and screen levels. It has been changed to use user Id instead of token number as parameter. It has also been changed to log more descriptive messages in case the web service encounters an exception.

UserIdFacadeImpl.java

UserIdFacadeImpl.java is used by the PPS web application to retrieve the user Id for a given token number. It has been changed to log more descriptive messages in case the web service encounters an exception.

PPSWeb Application

Java Programs

AccessEDBAction.java

AccessEDBAction.java is used by the PPS web application to run EDBInquiry application. It has been changed to set cookie as secure, if a secure server is being used.

LogonAction.java

LogonAction.java is used by the PPS web application for logon validation. It has been changed to check for a valid token number being returned by token service.
PPSWebBusinessDelegate.java
PPSWebBusinessDelegate.java is the business delegate for providing various services. It has been changed to pass campus Id as parameter when authenticating a user.

CallspDAO.java
CallspDAO.java is used by the PPS web application to call various DB2 stored procedures. It has been changed cater to “state connection” exception.

JDBCDataAccessor.java
JDBCDataAccessor.java is used to set up the JDBC datasource and get a connection to the database. It has been changed to remove any WebSphere specific code.

AuthenticationFacade.java
AuthenticationFacade.java encapsulates all of the services related to user authentication. It has been changed to pass campus Id as parameter to authenticate user.

SessionFilter.java
SessionFilter.java implements the interface javax.servlet.Filter interface. It has been changed to tighten application security.

JavaScript
There are no changes.

Web Pages

footer.jsp
footer.jsp displays the current PPSWeb application version number at the bottom of each screen. This is a newly added jsp.

mainmenu.jsp
mainmenu.jsp is the main menu of the PPSWeb application. If has been changed to enable/disable various application choices based on CICS region availability.

version.jsp
version.jsp holds the current PPSWeb application version number. It has been updated to hold the current PPSWeb release version number.

EDB Inquiry Application

Java Programs

StartEDBAction.java
StartEDBAction.java is the action class for the entry into the EDB Inquiry System. It has been changed to load PPS control data on a daily basis.

EDBInquiryConstants.java
EDBInquiryConstants.java defines the constants for EDBInquiry. A new constant has been added to facilitate loading of PPS control data.
StartEDBAction.java

applicationPropertiesLoader.java loads the property values defined in the property file. It is also used to load PPS control data at the application start time. This has been removed from here.

JavaScript

There are no changes.

Web Pages

version.jsp

version.jsp holds the current EDBInquiry application version number. It has been updated to hold the current EDBInquiry release number.

Installation Instructions

A separate Installation Instructions document is provided.

Test Plan - Error Report 2252

1. Assure that the PPS CICS region that hosts web Services for Web EDB Inquiry is running.
   - **action**: On the PPS Web Logon web page, key in a valid userid and password and click on the Logon button
   - **expected response**: Main Menu web page is returned with Employee Database (EDB) Inquiry, PAN and Web Merit links active

2. Assure that the PPS CICS region that hosts web Services for Web EDB Inquiry is NOT running.
   - **action**: On the PPS Web Logon web page, key in a valid userid and password and click on the Logon button
   - **expected response**: Main Menu web page is returned with Employee Database (EDB) Inquiry link inactive, PAN and Web Merit links active

Test Plan - Error Report 2268

1. Stop and restart the Web server.
2. Logon to PPSWeb and click on EDB Inquiry.
3. Ensure you see the “Employee Selection” screen.
4. Browse the SystemOut.log and make sure the following messages appear around the time you clicked on EDB Inquiry:
   - `System control data fetch data NULL... will fetch it`
   - `Saving system control data`

Timing of Installation

The timing of this release is **urgent**. Campuses need 24x7 logon should install this release as soon as possible.

As usual, campuses are encouraged to install this release in as timely a fashion as possible and in the normal numeric sequence.

If there are any questions, please send electronic mail to Peter.Parker@ucop.edu or call 510 987-0908.

Peter Parker