ERS Release 10.10

Enhancements
2924, 3212, 3235
3322, 3315

Bugs
2940, 3192, 3221
3222, 3223, 3245
3327, 3342

Detail Design

Last Updated: June 17, 2013
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Introduction

ERS release 10.10 includes the following enhancement request:

**Bugzilla Enhancement 2924**
This request asks for a new compliance report to monitor late certifications.

**Bugzilla Enhancement 3212**
This request asks to add report version number and date on the drill-down payroll details.

**Bugzilla Enhancement 3235**
This request asks for adding a configuration item to let campuses bypass the schedule type assignment logic in case of a combination of 9/9 and 9/12 appointment.

**Bugzilla Enhancement 3315**
This request asks for ability to remove “preliminary review” flag after report certification is done.

**Bugzilla Enhancement 3322**
This request asks for adding a confirmation message after “Reload Configuration” on the administration menu.

In addition, this release includes the following bug fixes:

**Bugzilla Bug 2940**
Restrict account department search to current effort report and non-zero effort percentages.

**Bugzilla Bug 3192**
Application fails if a user clicks on “Subscribe” to his own myProject or myCertification search list.

**Bugzilla Bug 3221 & 3222**
Search employee screen fails if a non-existing employee id is entered for “View Additional Employee List” or “View Cannot certify List” under the administration functions.

**Bugzilla Bug 3223**
The application fails if user tries to sort display list on “Add addition employee” screen.
Bugzilla Bug 3245
The latepay process removes “exception” status incorrectly.

Bugzilla Bug 3327
The ERS internal sign-on process needs to trim user id of any surrounding spaces.

Bugzilla Bug 3342
The ERS email notifications should provide for campus’s single sign-on screen link.

Overview of ERS Modifications

Bugzilla Enhancement 2924
This request asks for a new compliance report to monitor late certifications. Bugzilla enhancement #2905 required comments from user when a late certification occurs. This report will list all of the late certifications along with associated comments.

The following modifications will be made to the ERS system:

- Define the following new jasperReport report layouts (a sample layout is attached in Bugzilla):
  - Late certifications by department (LateCertDetailbyDepartment.jasper)
  - Late certifications by period (LateCertDetailbyPeriod.jasper)
  - Late certifications export to excel (SimpleLateCertDetail.jasper)

- Create new database view to collect data for report:
  - ERSHomeDeptLateCert view to access by departments
  - ERSHomeDeptRelatedLateCert view to access by departments with related orgs
  - ERSAcctOrgLateCert view to access by account orgs
  - ERSFundOrgLateCert view to access by fund orgs

- Create new hibernate mapping files to map the new views:
  - HomeDeptLateCertReport.hbm mapped to ERSHomeDeptLateCert view
  - HomeDeptRelatedLateCertReport.hbm mapped to ERSHomeDeptRelatedLateCert view
  - AcctOrgLateCertReport.hbm mapped to ERSAcctOrgLateCert view
  - FundOrgLateCertReport.hbm mapped to ERSFundOrgLateCert view

- Add new mapping files to mapping.xml

- Define new constants in ERSConstants.java

<table>
<thead>
<tr>
<th>Name</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRT_LATE_CERT</td>
<td>“L”</td>
</tr>
</tbody>
</table>

- Create new utility class, LateCertReportDetailStructure.java, to hold data for the report.
- Create new class, LateCertReportDelegate.java, to access and build data for the report.
Build conditional clauses based on user selection criteria and build data list using `LateCertReportDetailStructure` class.

- Modify `CreateReportGenAction.java` to cater to the new report.
- Modify `ViewReportGenAction.java` to cater to the new report.
- Modify JavaScript in `ers_admin_gen_reports.jspf` to cater to the new report.

**Bugzilla Enhancement 3212**

This request asks to add report version number and date on the drill-down payroll details.

The following modifications will be made to the ERS system:

- Modify `report-detail.jspf` to add report version and date on the header portion. Also, insert a space around the divider lines. Also, the “Status” needs to display the status of the currently viewed report version.

**Bugzilla Enhancement 3235**

This request asks for adding a configuration item to let campuses bypass the schedule type assignment logic in case of a combination of 9/9 and 9/12 appointment. There is a special logic in the system which assigns 11/12 appointment if it finds an employee with a combination of 9/9 and 9/12 appointments. An external campus configurable flag will be added to enable campuses bypass this special case handling by the system.

The following modifications will be made to the ERS system:

- Define a new config level option:
  - Bypass 11/12 appointment check – This enables campuses to specify if the application should bypass the logic where it assigns 11/12 appointment if an employee has a combination of 9/9 and 9/12 appointments.

<table>
<thead>
<tr>
<th>Name</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>bypass-11over12-appointment-check</td>
<td>“true” or “false”. Default is “false”.</td>
</tr>
</tbody>
</table>

- Change `ConfigLoader.java` to load new option, `bypass-11over12-appointment-check` with a default value of false.
- Define new constants in `ERSConstants.java`
• Modify RunPARInterface.java to read config option, bypass-11over12-appointment-check.

• Modify InterfacePARProcessor.java as follows:
  o Pass bypass-11over12-appointment-check value to setScheduleForCurrentEmp() and ScheduleSetter()

• Modify EarningsEffectiveValuesParser.java as follows:
  o Check for bypass-11over12-appointment-check flag to bypass test for 9/9 + 9/12 combination exception.

**Bugzilla Enhancement 3315**

This request asks for ability to remove “preliminary review” flag after report certification is done. The “preliminary review” flag is used by some campuses to flag an effort report for review before certification can be done. However, this flag does not prevent PIs to certify the report. In some case, the flag is still set to “yes”, even though the report has been certified.

The following modifications will be made to the ERS system:

• Modify report-view.jspf as follows:
  o Make the “preliminary review” checkbox as enterable field.
  o Define html “form” tag to invoke updatePrelimReviewStatusAction when user checks/unchecks the “preliminary review” checkbox.

**Bugzilla Enhancement 3322**

This request asks for adding a confirmation message after “Reload Configuration” on the administration menu. Currently the user has no idea if the reload was successful.

The following modifications will be made to the ERS system:

• Define a new message in the ApplicationResources.properties file:

<table>
<thead>
<tr>
<th>Name</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>sysadmin.reload.config.successful</td>
<td>Config reload completed successfully</td>
</tr>
</tbody>
</table>

• Modify adminMain.jspf to add a place holder for displaying message

• Modify ReloadCongifAction.java to add confirmation to ActionMessages after the load is successful.

**Bugzilla Bug 2940**

Restrict account department search to current effort report and non-zero effort percentages. The feature to search above the line items only was added in 10.8 release. However, additional requirements have been added to consider only the current version of the effort reports with a non-zero effort percentage.

The following modifications will be made to the ERS system:

• Modify AccountDeptSearchImpl.java to as follows:
  o Join ERSEFFORTRPT and ERSRPTFUNDITEMS tables to the base query.
  o Add additional conditions in the WHERE clause when searching only the certified line items
    - ERSEFFORTRPT.CURRENT_IND = “Y”
    - ERSRPTFUNDITEMS.SP_ID = ERSFUNDINGSOURCE.SP_ID
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ERSRTFUNDITEMS.ENT_PCT_EFFORT NOT = 0

Bugzilla Bug 3192
Application fails if a user clicks on “Subscribe” to his own myProject or myCertification search list. These system built-in searches are already available to the user on his “Manage Search” page. These two searches should not be available for subscription.

The following modifications will be made to the ERS system:

- Modify `SubscribeToPIBuiltInSearchAction.java` to add user’s own employee id in the list of subscribed searches. This will disable the “Subscribe” option on the subscription list.

Bugzilla Bug 3221 & 3222
Search employee screen fails if a non-existing employee id is entered for “View Additional Employee List” or “View Cannot certify List” under the administration functions.

The following modifications will be made to the ERS system:

- Define new label in `SearchEmployeePIIndicatorAction.java` check if the employee record is not found if the search is by employee id.

Bugzilla Bug 3223
The application fails if user tries to sort display list on “Add addition employee” screen. The list can be sorted by clicking on the field label. The same issue exists for “View Cannot certify List” screen.

The following modifications will be made to the ERS system:

- Modify `searchEmployeePIIndicator.jspf` as follows:
  - Remove sort capability on “Schedule”.
  - Remove sort capability on “PI” flag.
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- Modify AddEmpIncludeListAction.java as follows:
  - The “MaxresultField” is not being set correctly by the program causing the abend. Add call to handleMaxResultsField() function to set the value correctly.

- Modify EditEmployeeListSorter.java as follows:
  - The sort on “Department” has incorrect name. Change the name from “dept.deptName” to “deptName”.

**Bugzilla Bug 3245**

The latepay process re-checks and sets the status of an effort report after applying latepay transactions. The report is set to “Exception” status under certain conditions. One of the condition is when the total efforts on the report do not total to 100%. The other condition is when there are unrecognized earnings associated with a report. This work correctly when the first late pay processing is done. However, if there are subsequent latepay transactions, the process incorrectly removes “Exception” status even if the report has unrecognized earnings.

The following modifications will be made to the ERS system:

- Modify ReportBuilder.java as follows:
  - Method determineLateStatus() fails to check if previously there were unrecognized earnings. In case of latepay processing, it’s only looking at new late earning records. Include “hasAtLeastOneInvalidEarn” check also when determining if the report should have “exception” status.

**Bugzilla Bug 3327**

When a user signs in with trailing spaces in the user id fields (mostly as a result of cut and paste), the system does not remove the spaces. The system built-in searches are created with the user id, containing the trailing space. If the user signs in again, without the trailing space, the system fails to match the existing built-in searches for the user. This results in application failure.

The following modifications will be made to the ERS system:

- Modify signInForm.java to trim user id of any leading and trailing spaces.

**Bugzilla Bug 3342**

ERS notifications sent via emails provide users a link to sign-on to ERS application. However, this link uses ERS base URL and in some cases, takes users to a campus selection screen. This link should be changed to campuses single sign-on page URL.

The following modifications will be made to the ERS system:

- Define a new config level variable:
  - ApplicationSingleSignonURL – This enables campuses to specify if the single sign-on page URL

<table>
<thead>
<tr>
<th>Name</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ApplicationSingleSignonURL</td>
<td>URL link for single sign-on page</td>
</tr>
</tbody>
</table>

- Change ConfigLoader.java to load new variable ApplicationSingleSignonURL.
- Define new constants in ERSConstants.java
Change `NotificationDispatcher.java` to use the new link. If the link is not present, continue to use the base link.
Appendix A – ERS Changed Entities

jasperReport Files

- The following jasperReport files have been added or changed:

  EffortReporting/WebRoot/JReports/LateCertDetailbyDepartment.jasper
  EffortReporting/WebRoot/JReports/LateCertDetailbyPeriod.jasper
  EffortReporting/WebRoot/JReports/simpleLateCertDetail.jasper
  EffortReporting/WebRoot/jrxml/LateCertDetailbyDepartment.jrxml
  EffortReporting/WebRoot/jrxml/LateCertDetailbyPeriod.jrxml
  EffortReporting/WebRoot/jrxml/simpleLateCertDetail.jrxml

JavaScripts

- The following JavaScripts have been added or changed

  EffortReporting/WebRoot/scripts/ers_admin_gen_reports.jspf

JSPs

- The following JSPs have been added or changed

  EffortReporting/WebRoot/bodies/report-details.jspf
  EffortReporting/WebRoot/bodies/report-view.jspf
  EffortReporting/WebRoot/bodies/admin/adminMain.jspf
  EffortReporting/WebRoot/bodies/admin/searchEmployeePILevel.jspf
  EffortReporting/WebRoot/campus/generic/footer.jspf

Struts and Spring Framework Configuration Files

- The following Struts configuration files have been added or changed

  EffortReporting/WebRoot/config/ERSConfig.xml
  EffortReporting/src/main/edu/ucop/ers.struts/ApplicationResources.properties

Java Classes

- The following Java classes have been added or changed

  EffortReporting/src/main/edu/ucop/ers/ERSConstants.java
  EffortReporting/src/main/edu/ucop/ers/ERSVersion.java
  EffortReporting/src/main/edu/ucop/ers/admin/sorter/EditEmployeeListSorter.java
  EffortReporting/src/main/edu/ucop/ers/admin/utility/LateCertReportDetailStructure.java
  EffortReporting/src/main/edu/ucop/ers/admin/utility/reports/LateCertReportDelegate.java
  EffortReporting/src/main/edu/ucop/ers/domain/AccountOrganizationLateCertReport.java
  EffortReporting/src/main/edu/ucop/ers/domain/ERSFirstCertifiedReport.java
  EffortReporting/src/main/edu/ucop/ers/domain/ERSFirstLineCertifiedReport.java
  EffortReporting/src/main/edu/ucop/ers/domain/HomeDepLateCertReport.java
  EffortReporting/src/main/edu/ucop/ers/domain/HomeDeptRelatedLateCertReport.java
  EffortReporting/src/main/edu/ucop/ers/domain/base/BaseAccountOrganizationLateCertReport.java
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The following action classes have been added or changed

- EffortReporting/src/main/edu/ucop/ers/admin/struts/action/ReloadConfigAction.java
- EffortReporting/src/main/edu/ucop/ers/admin/struts/action/reports/compliance/CreateReportGenAction.java
- EffortReporting/src/main/edu/ucop/ers/admin/struts/action/reports/compliance/LoadCompReportParamsAction.java
- EffortReporting/src/main/edu/ucop/ers/admin/struts/action/reports/compliance/ViewReportGenAction.java
- EffortReporting/src/main/edu/ucop/ers/admin/struts/action/tablemaint/AddEmpIncludeListAction.java
- EffortReporting/src/main/edu/ucop/ers/admin/struts/action/tablemaint/SearchEmployeePIIndicatorAction.java
- EffortReporting/src/main/edu/ucop/ers/struts/action/SubscribeToPIBuiltInSearchAction.java

The following hibernate entities have been added or changed

- EffortReporting/src/main/mappings.xml
- EffortReporting/src/main/edu/ucop/ers/domain/AcctOrgLateCertReport.hbm
- EffortReporting/src/main/edu/ucop/ers/domain/ERSFirstCertifiedReport.hbm
- EffortReporting/src/main/edu/ucop/ers/domain/ERSFirstLineCertifiedReport.hbm
- EffortReporting/src/main/edu/ucop/ers/domain/HomeDeptLateCertReport.hbm
- EffortReporting/src/main/edu/ucop/ers/domain/HomeDeptRelatedLateCertReport.hbm
- EffortReporting/src/main/edu/ucop/ers/domain/FundOrgLateCertReport.hbm

The following action classes have been added or changed

- EffortReporting/src/main/edu/ucop/ers/domain/dao/AcctOrgLateCertReportDAO.java
- EffortReporting/src/main/edu/ucop/ers/domain/dao/ERSFirstCertifiedReportDAO.java
- EffortReporting/src/main/edu/ucop/ers/domain/dao/ERSFirstLineCertifiedReportDAO.java
- EffortReporting/src/main/edu/ucop/ers/domain/dao/HomeDeptLateCertReportDAO.java
- EffortReporting/src/main/edu/ucop/ers/domain/dao/HomeDeptRelatedLateCertReportDAO.java
- EffortReporting/src/main/edu/ucop/ers/domain/dao/FundOrgLateCertReportDAO.java

Struts Action Classes

- The following action classes have been added or changed

Hibernate Entities

- The following hibernate entities have been added or changed

Database Scripts

- The following action classes have been added or changed
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EffortReporting/WebRoot/sql/ERS_CREATE_TABLE_SCRIPT_DB2_V8.SQL
EffortReporting/WebRoot/sql/ERS_CREATE_TABLE_SCRIPT_ORACLE.SQL
EffortReporting/WebRoot/sql/ERS_CREATE_TABLE_SCRIPT_SYBASE.SQL
EffortReporting/WebRoot/sql/ERS_R10-10_UPGRADE_DB2.SQL
EffortReporting/WebRoot/sql/ERS_R10-10_UPGRADE_ORACLE.SQL
EffortReporting/WebRoot/sql/ERS_R10-10_UPGRADE_SYBASE.SQL

Help Files

- The following action classes have been added or changed

EffortReporting/WebRoot/help/admin/genReport.jspf