ERS Release 10.10

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Detail Design

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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*
- Add new mapping files to *mapping.xml*
- Define new constants in *ERSConstants.java*

Name	Value
CRT_LATE_CERT	"L"

- 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.
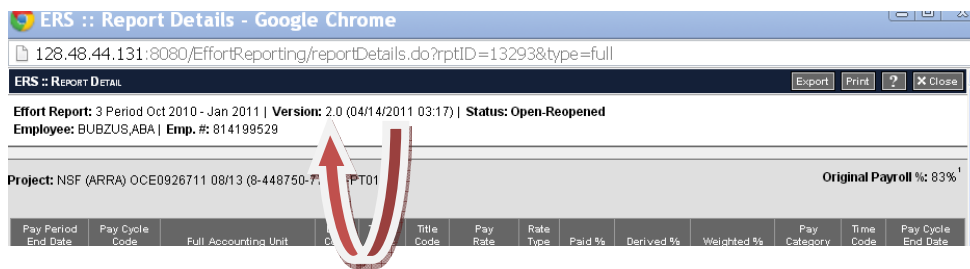
- o Build conditional clauses based on user selection criteria and build data list using *LateCertReportDetailStructure* class.

- Modify *CreateReportGenAction.java* to cater to the new report.

- Modify *ViewReportGenAction.java* to cater to the new report.

- Modify help file *genReport.jspf* to add 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:

  - o 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.

Name	Value
bypass-11over12-appointment-check	"true" or "false". Default is "false".

- Change *ConfigLoader.java* to load new option, *bypass-11over12-appointment-check* with a default value of false.

- Define new constants in *ERSConstants.java*

Name	Value
`CFG_OPTIONS_BYPASS_11OVER12_APPT_CHECK`	`"Options.bypass-11over12-appointment-check"`
`BYPASS_11OVER12_APPT_CHECK`	`bypass11Over12ApptCheck`

- 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:

Name	Value
sysadmin.reload.config.successful	Config reload completed successfully

- 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

▪ ERSRPTFUNDITEMS.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 a 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:
    - o Remove sort capability on "Schedule".
    - o Remove sort capability on "PI" flag.

- Modify *AddEmpIncludeListAction.java* as follows:

    o 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:

    o 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:

    o 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 uses 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:

    o *ApplicationSingleSignonURL* – This enables campuses to specify if the single sign-on page URL

Name	Value
ApplicationSingleSignonURL	URL link for single sign-on page

- Change *ConfigLoader.java* to load new variable *ApplicationSingleSignonURL.*
- Define new constants in *ERSConstants.java*

Name	Value

CFG_SINGLE_SIGNON_URL	GlobalItems.ApplicationSingleSignonURL

- 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/searchEmployeePIIndicator.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/AcctOrgLateCertReport.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/FundOrgLateCertReport.java
EffortReporting/src/main/edu/ucop/ers/domain/HomeDeptLateCertReport.java
EffortReporting/src/main/edu/ucop/ers/domain/HomeDeptRelatedLateCertReport.java
EffortReporting/src/main/edu/ucop/ers/domain/base/BaseAcctOrgLateCertReport.java

EffortReporting/src/main/edu/ucop/ers/domain/base/BaseAcctOrgLateCertReportDAO.java
EffortReporting/src/main/edu/ucop/ers/domain/base/BaseERSFirstCertifiedReport.java
EffortReporting/src/main/edu/ucop/ers/domain/base/BaseERSFirstCertifiedReportDAO.java
EffortReporting/src/main/edu/ucop/ers/domain/base/BaseERSFirstLineCertifiedReport.java
EffortReporting/src/main/edu/ucop/ers/domain/base/BaseERSFirstLineCertifiedReportDAO.java
EffortReporting/src/main/edu/ucop/ers/domain/base/BaseFundOrgLateCertReport.java
EffortReporting/src/main/edu/ucop/ers/domain/base/BaseFundOrgLateCertReportDAO.java
EffortReporting/src/main/edu/ucop/ers/domain/base/BaseHomeDeptLateCertReport.java
EffortReporting/src/main/edu/ucop/ers/domain/base/BaseHomeDeptLateCertReportDAO.java
EffortReporting/src/main/edu/ucop/ers/domain/base/BaseHomeDeptRelatedLateCertReport.java
EffortReporting/src/main/edu/ucop/ers/domain/base/BaseHomeDeptRelatedLateCertReportDAO.java
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/FundOrgLateCertReportDAO.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/editcert/ReportStructureBuilder.java
EffortReporting/src/main/edu/ucop/ers/generate/EarningsEffectiveValuesParser.java
EffortReporting/src/main/edu/ucop/ers/generate/InterfacePARProcessor.java
EffortReporting/src/main/edu/ucop/ers/generate/ReportBuilder.java
EffortReporting/src/main/edu/ucop/ers/generate/batch/RunPARInterface.java
EffortReporting/src/main/edu/ucop/ers/search/AccountDeptSearchImpl.java
EffortReporting/src/main/edu/ucop/ers/struts/form/SignInForm.java
EffortReporting/src/main/edu/ucop/ers/utility/ConfigLoader.java
EffortReporting/src/main/edu/ucop/ers/utility/NotificationDispatcher.java

Struts Action Classes

- 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

Hibernate Entities

- 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

Database Scripts

- The following action classes have been added or changed

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