

Save Some Trees: Getting Rid of Paper Security Forms and Do Online Role Requests

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Presenters

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Agenda/Contents

- Configuration
- End User experience
- Live Demo
- Technical info
- Q&A

PeopleSoft at FSU

- HCM – 9.0
- FIN – 8.9 upgrading to 9.0 next week
- Portal – 9.0
- EPM - 9.0
- Tools – 8.49

Purpose of Customization

- Automate the existing paper process
- Speed up approval and granting/removal of roles
- Improve the Security request approval
Audit trail

Additional Info

- Modification is in the HR Suite but manages roles in all environments
- Still a paper process for some Roles and User Preferences
- Mutually exclusive roles

Configuration

- Add Role
- Add Role Approvers
- Set Mutually Exclusive Roles
- Add Messages

Configuration Pages

Role Approver(s)

Role Name FSU_TL_REP

Application Suite Human Resources

General Information

*Description T&L Representative for Dept.




*Status Active




Long Description This role is to request Time and Labor Representatives and Groups.

Role Type Department Roles







Default Role

Configuration Pages

Mutually Exclusive Role(s) [Customize](#) | [Find](#) |  First  1 of 1  Last

<u>Role Name</u>		
<input type="text" value="FSU_TL_POWER_USER"/> 		

Configuration Pages

Mutually Exclusive Role(s)		Customize	Find	First	1-2 of 2	Last
Role Name						
<input type="text" value="FSU_PO_RECEIVER"/>						
<input type="text" value="FSU_PO_REQUESTER"/>						

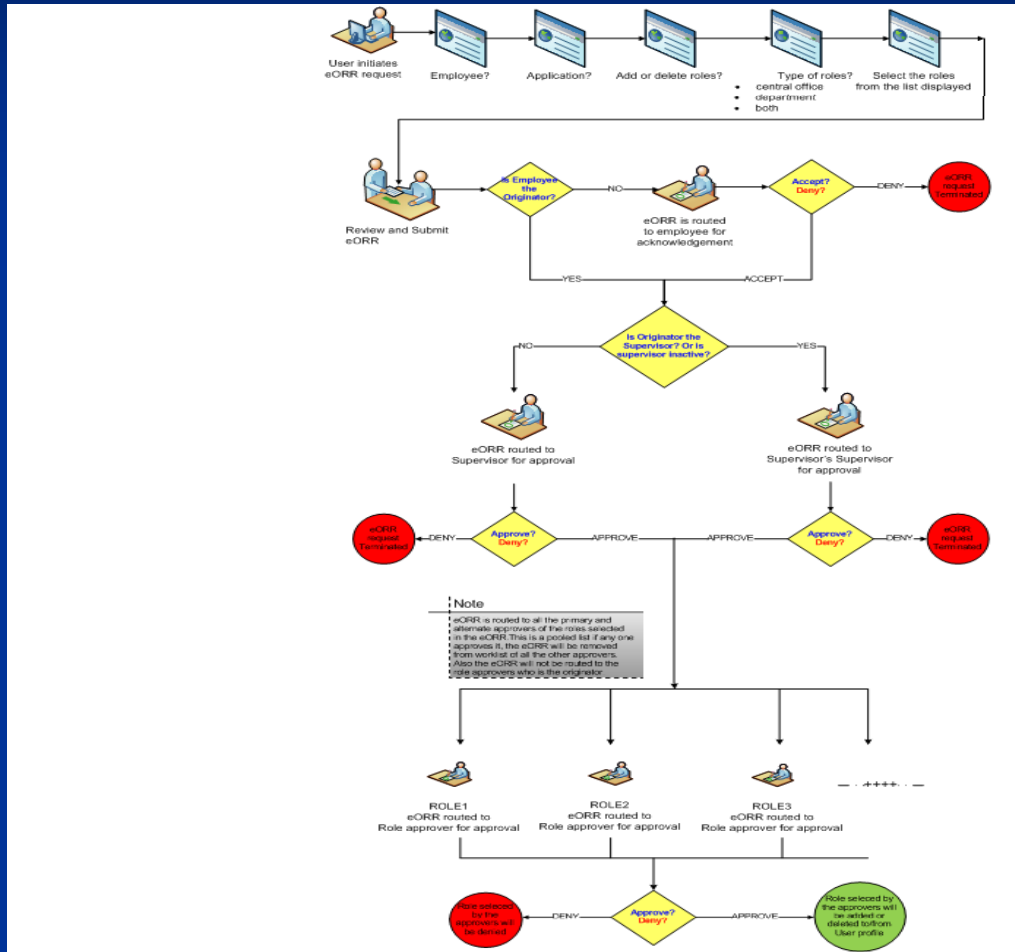
Configuration Pages

Messages to Display							Customize Find 		First 	1 of 1	 Last
<u>Message Set Number</u>	<u>Message Number</u>	<u>Severity</u>	<u>Message Text</u>	<u>Description</u>	<u>Update Msg Catalog</u>						
20002 	37 	Message	Department IDs needed.	T&L Representative requests require DEPTIDs to be entered in the Justification field on the Submit page. Click Continue to enter DEPTID.	Update Msg Catalog						

Processes performed by users

- Online Role Request
- Approve Online Role Request

Workflow Approval path



Request Process

Online Role Request
Employee Search

*Search by:

Last Name:

Search Results Find First 1-3 of 3 Last

<u>Name</u>	<u>Employee ID</u>	<u>Empl Rcd#</u>	<u>Job Title</u>	<u>Department</u>
Albert Bowden	000039241	0	900140	LAW
Brandon Bowden	000021740	0	9254	OU_ADMIN
Robert Bowden	000007532	0	9470	ATHL_ADMIN

* Required Field

Request Process

Create Role Request

Select the Application

Robert Bowden Employee ID 000007532 Empl Rcd# 0

Financials

Human Resources

Request Process

Create Role Request

Select Action

Robert Bowden Employee ID 000007532 Empl Rcd# 0



Do you want to add or delete role(s) for the this employee?

Add

Delete

Request Process

Create Role Request

Select type of Roles for Human Resources Application

Robert Bowden Employee ID 000007532 Empl Rcd# 0

Central Office Roles

Department Roles

Both

Request Process

Create Role Request

Select the Roles for Human Resources Application

Robert Bowden

Employee ID 000007532

Empl Rcd# 0



Following roles are already assigned to this employee in Human Resources Application

None

Select Roles

Customize | Find | First 1-9 of 9 Last

<input type="checkbox"/>	FSU_HR_DEPARTMENT_USER	Department User Role
<input type="checkbox"/>	FSU_HR_UPDATE_PI	Department User Role
<input type="checkbox"/>	FSU_OBIEE_SUPERUSER	Department User Role
<input type="checkbox"/>	FSU_PR_DEPARTMENT_USER	Department User Role
<input type="checkbox"/>	FSU_SS_ADDL_APPROVER	Department User Role
<input checked="" type="checkbox"/>	FSU_SS_MANAGER	Department User Role
<input type="checkbox"/>	FSU_SS_RECRUITING_APPROVER	Department User Role
<input type="checkbox"/>	FSU_SS_VP_APPROVER	Department User Role
<input type="checkbox"/>	FSU_TL_REP	T&L Representative for Dept.

Back

Continue

Request Process

Create Role Request

Role Entry for Human Resources Application

Robert Bowden


Employee ID 000007532 Empl Rcd# 0

General Information

*Reason for Request:	Change in Job Duties	*Justification:	
Request Status:	Pending		
Department:	006002	Athletics Administration	
Supervisor:	000078267	Spetman,Randall W.	
	Created On:	03/20/2009	By: ATEKRIWAL
	Last Updated:		By:

Following roles are already assigned to this employee in Human Resources Application

None

Roles		Customize Find 		First	1 of 1	Last
Role Name	Description					
FSU_SS_MANAGER	Department User Role	+	-			

Back

Submit

Request Process

Create Role Request

Submit Confirmation

Robert Bowden

Employee ID 000007532

Empl Rcd# 0

Click ok to submit the request. You can click cancel to go back to previous page without submitting the request.

OK

Cancel

Approve Request Process

Approve Role Request

Enter any information you have and click Search. Leave fields blank for a list of all values.

Find an Existing Value

Search by: Request ID begins with

Search

[Advanced Search](#)

Approve Request Process

Approve Role Request
Role Request Summary for Human Resources Application

Robert Bowden Employee ID 000007532 Empl Rcd# 0 Request ID 0000001219

General Information

Reason for Request: Other - Enter comments ---> Comments: Department user role

Request Status: Submitted for Approvals

Department: 006002 Athletics Administration

Supervisor: 000078267 Spetman,Randall W.

Created On: 03/20/2009 By: ATEKRIWAL

Last Updated: 03/20/09 9:46:29AM By: ATEKRIWAL

Following roles are already assigned to this employee in Human Resources Application

None

You can either accept or decline this role request.

Roles Requested

Role Name	Description	Action	Approve
FSU_SS_MANAGER	Description	Add	<input checked="" type="checkbox"/>

Comments

Approval Monitor

Employee Acknowledgement

REQUEST_ID=0000001219:Pending [Start New Path](#)

Employee Acknowledgement

Pending

Bowden,Robert C
FSU_EORR_EMPL_ACKNLG [Start](#)

Supervisor Approval

REQUEST_ID=0000001219:Awaiting Further Approvals [Start New Path](#)

Supervisor Approval

Not Routed

SPETMAN,RANDALL
FSU_EORR_SUP_APR [Start](#)

Role Approval

REQUEST_ID=0000001219, ROLENAME=FSU_SS_MANAGER:Initiated [Start New Path](#)

Role Approval

Not Routed

Multiple Approvers
FSU_EORR_ROLE_APR [Start](#)

In requesting these roles, more specifically defined as a right to perform certain business functions within the OMNI ERP system, I hereby affirm that each role is necessary for me to conduct official business for Florida State University. I acknowledge that I occupy a position of special trust with duties that require bringing me into contact with information or information resources that are of value to the State University System and that require protection. I further acknowledge that I am required to uphold University policies and procedures adopted to safeguard the information and associated resources that may be entrusted to me or with which I have contact. I agree to report violations of such policies or procedures to my supervisor, the Information Security Manager, or other person designated the responsibility for handling security violations. I further agree to protect my User ID and related password from unauthorized use at all times and understand that activity logged to my User ID is my sole responsibility. I ACKNOWLEDGE THAT MISUSE OF MY AUTHORITY IN THIS ROLE COULD LEAD TO DISCIPLINARY OR CRIMINAL ACTION AGAINST ME.

Live Demo

PS Objects/Technology

- AWE (Approval Workflow Engine)
- Sync and Async service operations (Application Message)
- Component Interface
- Application Package
- Record/Page/Component/PeopleCode

Workflow Setup(AWE)

- Register Transaction
- Configure Transaction
- Setup Process Definition
- Email templates
- User list (Approvers/Reviewers)

Workflow Setup(AWE)

Register Transactions

Process ID: FSU_EORR
*Description: FSU eORR Workflow Approval
Object Owner ID: Workforce Planning
*Cross Reference Table: FSU_EORRAPR_XRF

Notification Options

*Enable Notifications: Enable Email and Worklist
*Notification Strategy: Online Processing
Use Email Approvals:
Form Generator Package Root:
Form Generator Class Path:

Default Approval Component

*Menu Name: FSU_EORR
*Approval Component: FSU_EORR_APR

Approval Event Handler Class

Root Package ID: FSU_AWE_EORR_EVT_HNDLER
Path: FSU_EORR_APPROVAL:EORR_Handl

Approval Status Monitor

Adhoc Package: Adhoc Class:
Thread Package: Thread Class:

Transaction Approval Levels

*Level	*Record (Table) Name		
1 Header	FSU_ROLEWF_HDR		+ -
2 Line	FSU_ROLEWF_LINE		+ -

Level Record Key Field Label IDs

Record (Table) Name	Field Name	*Field Label ID
1 FSU_ROLEWF_HDR	REQUEST_ID	REQUEST_ID
2 FSU_ROLEWF_LINE	REQUEST_ID	REQUEST_ID
3 FSU_ROLEWF_LINE	ROLENAME	ROLENAME

Workflow Setup(AWE)

Configure Transactions

Generic Template Definition
Blackberry Email Responses

Template: FSU eORR Approved

***Description:**

Instructional Text:

Priority:

***Sender:** **Email ID:**

Subject:

Message Text:
 Request ID: %9
 Employee: %3
 Employee Record: %4
 Name: %5
 Department: %8

Below is the list of available variables for this template.
 You can use template variables within your subject or message text.
 The following variables can also be used:
 %Date, %DateTime, %Time, %ServerTimeZone, %EmailAddress, %NotificationPriority,
 %NotificationToList, %NotificationCCList

Template Variables		
*Value	*Description	
<input type="text" value="%1"/>	<input type="text" value="URL"/>	+ -
<input type="text" value="%2"/>	<input type="text" value="Role Request ID"/>	+ -
<input type="text" value="%3"/>	<input type="text" value="Employee ID"/>	+ -
<input type="text" value="%4"/>	<input type="text" value="Employee Record"/>	+ -
<input type="text" value="%5"/>	<input type="text" value="Name"/>	+ -
<input type="text" value="%6"/>	<input type="text" value="Application"/>	+ -
<input type="text" value="%7"/>	<input type="text" value="Action"/>	+ -

Workflow Setup(AWE)

Setup Process Definitions

[Definition Criteria](#) | [Alert Criteria](#) | [Save As](#) | [Approval Process Viewer](#) | [Preview](#)

Process ID: FSU_EORR *Admin Role: FSU_AWE_EORR_ADMIN Default Process Definition
Definition ID: SHARE *Status: Active Take Action on Line Completion
Effective Date: 01/01/1901 Priority: 1 User Auto Approval
Description: Route to Requester

Stages Find | View 1 First 1-3 of 3 Last

*Stage Number: 1 Description: Employee Acknowledgement Level: Header

Paths Find | View All First 1 of 1 Last

Description: Employee Acknowledgement *Source: Static Details Criteria

Steps Customize | Find | View All First 1 of 1 Last

Description	Approver User List	Details	Criteria
1 Employee Stature Accept	FSU_EORR_EMPL_ACKNLG		

*Stage Number: 2 Description: Supervisor Approval Level: Header

Paths Find | View All First 1 of 1 Last

Description: Supervisor Approval *Source: Static Details Criteria

Steps Customize | Find | View All First 1 of 1 Last

Description	Approver User List	Details	Criteria
1 Supervisor Approval	FSU_EORR_SUP_APR		

*Stage Number: 3 Description: Role Approval Level: Line

Paths Find | View All First 1 of 1 Last

Description: Role Approval *Source: Static Details Criteria

Steps Customize | Find | View All First 1 of 1 Last

Description	Approver User List	Details	Criteria
1 Role Approval	FSU_EORR_ROLE_APR		

Workflow Setup(AWE)

The image shows two overlapping windows from a software application. The left window is titled "User List Definition" and contains the following fields and options:

- User List: FSU_EORR_SUP_APR
- *Description: FSU_EORR_SUP_APR
- User List Source:
 - Role
 - SQL Definition SQL Object Identifier: FSU_E
 - Query
 - Application Class
- Include Users as Input
- Transaction Keys as Input
- Buttons: Save, Return to Search, Notify

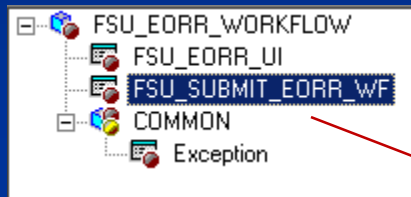
The right window is titled "FSU_EORR_SUP_APR.0.GBL .1900-01-01 (SQL Definition)" and shows a SQL query:

```
[default]
SELECT B.OPRID
FROM PS_FSU_ROLEWF_HDR A
,PSOPRDEFN B
WHERE A.REQUEST_ID = :1
AND A.SUPERVISOR_ID <> ''
AND A.SUPERVISOR_ID = B.EMPLID
AND B.OPRID <> A.ORIGINATORID
UNION
SELECT B.OPRID
FROM PS_FSU_ROLEWF_HDR A
,PSOPRDEFN B
WHERE A.REQUEST_ID = :1
AND A.FSU_SUP_SUP_ID <> ''
AND A.FSU_SUP_SUP_ID = B.EMPLID
AND ( A.SUPERVISOR_ID = ''
OR NOT EXISTS (
SELECT 'X'
FROM PS_FSU_ROLEWF_HDR A
,PSOPRDEFN B
WHERE A.REQUEST_ID = :1
AND A.SUPERVISOR_ID = B.EMPLID)
OR EXISTS (
SELECT 'X'
FROM PS_FSU_ROLEWF_HDR A
,PSOPRDEFN B
WHERE A.REQUEST_ID = :1
AND A.SUPERVISOR_ID = B.EMPLID
AND B.OPRID = A.ORIGINATORID) )
```

A red arrow points from the "SQL Object Identifier" field in the left window to the "FSU_E" text in the right window.

Code for Workflow

- Created Application Package that contained all the method to initialize,submit,clean-up transaction



```
FSU_SUBMIT_EORR_WF [application_class] OnExecute

import HRS_AWE:INTERFACES:ILaunchManager;
import HRS_AWE:INTERFACES:IApprovalManager;
import HRS_AWE:ApprovalsFactory;
import FSU_EORR_WORKFLOW:COMMON:Exception;

/* Class FSU_SUBMIT_eORR_WF
Module: eORR Workflow */

class FSU_SUBMIT_EORR_WF
method FSU_Submit_eORR_Approval(<recEORR As Record);
method FSU_Init_eORR_Approval(<recEORR As Record) Returns HRS_AWE:INTERFACES:ILaunchManager;
method FSU_saveAdhocSteps();
method FSU_do_submit_cleanup();
/* private
instance HRS_AWE:ApprovalsFactory <AprvFactory;
instance HRS_AWE:INTERFACES:ILaunchManager <LaunchMgr; */
end-class;

Component string <streORRAprvInd;
Component HRS_AWE:ApprovalsFactory <AprvFactory;
Component HRS_AWE:INTERFACES:ILaunchManager <LaunchMgr;
Component HRS_AWE:INTERFACES:IApprovalManager <AprvMgr;

/* This Method is what submits the eORR for Approvals */
method FSU_Submit_eORR_Approval
/* <recEORR as Record +/

<LaunchMgr = %This.FSU_Init_eORR_Approval(<recEORR);
If <LaunchMgr.submitEnabled Then
/* <LaunchMgr.requester = <HR.getOprID(<recJO.MANAGER_ID.Value); */
<LaunchMgr.requester = %OperatorId;
<LaunchMgr.DoSubmit();
End-If;
end-method;

/* This Method is what initiates the eORR Approval Process to the Approvals Workflow Engine. */
method FSU_Init_eORR_Approval
/* <recEORR as Record +/
/* Returns HRS_AWE:INTERFACES:ILaunchManager +/
```

code for Workflow

- Created another Application Package(event handler) that contained all the method to add/delete roles in User profile,create app message to integrate with other PeopleSoft applications, set transaction status to Approve/denied/in progress ,error handling etc



```
EORR_Handler [application_class] OnExecute

import HMAF_AWE:WRAPPERS:*;
import HRS_COMMON:OBJ_STATUS_EFFECTS:BUS:*;
import HRS_APPLICANT_TRACKING:HRS_OFFER:BUS:*;
/* Begin FSU Spec#0418, MBILLA, 05/06/2008 - 9.0 Retrofit */

import PTAF_CORE:*;
import PTAF_CORE:ENGINE:*;
/* End FSU Spec#0418, MBILLA, 05/06/2008 - 9.0 Retrofit */
import HMAF_AWE:WRAPPERS:*;
import HRS_AWE:INTERFACES:*;

/* Begin FSU Spec#0418, MBILLA, 05/06/2008 - 9.0 Retrofit */
rem 8.9 version class EORR_Handler extends SAC_AW:ApprovalEventHandler;
class EORR_Handler extends PTAF_CORE:ApprovalEventHandler
/* End FSU Spec#0418, MBILLA, 05/06/2008 - 9.0 Retrofit */
property Record recEORRAprv;
property Record recEORRLineAprv;
method EORR_Handler();

method OnProcessLaunch(&appInst As PTAF_CORE:ENGINE:AppInst);
method OnStepActivate(&stepinst As PTAF_CORE:ENGINE:StepInst);
method OnStepComplete(&stepinst As PTAF_CORE:ENGINE:StepInst);
method OnStepPushback(&userinst As PTAF_CORE:ENGINE:UserStepInst);
method OnStepReactivate(&stepinst As PTAF_CORE:ENGINE:StepInst);
method OnHeaderDeny(&userinst As PTAF_CORE:ENGINE:UserStepInst);
method OnHeaderApprove(&appinst As PTAF_CORE:ENGINE:AppInst);
method OnTerminate(&appinst As PTAF_CORE:ENGINE:AppInst);
method Set_Hdr_Keys_And_Field_Info(&thread As PTAF_CORE:ENGINE:Thread);
method OnAdHocInsert(&stepinst As PTAF_CORE:ENGINE:AdHocStepInst, &approver As array of string);
method OnAdHocDelete(&stepinst As PTAF_CORE:ENGINE:AdHocStepInst);
method OnLineDeny(&userstep As PTAF_CORE:ENGINE:UserStepInst);
method OnLineApprove(&appinst As PTAF_CORE:ENGINE:AppInst, &thread As PTAF_CORE:ENGINE:Thread);
method OnAllLinesProcessed(&appinst As PTAF_CORE:ENGINE:AppInst, &approved As array of PTAF_CORE:ENGINE:Thread, &denied

/* End FSU Spec#0418, MBILLA, 05/06/2008 - 9.0 Retrofit */
method setStatus();
method GetUserId(&emplid As string) Returns string;
method ProcessAddAction();
method ProcessDeleteAction();
method errorHandler(&oSession As ApiObject);
end-class;
```

Code used to fire Workflow (Submit)

- Peoplecode to submit transaction should be written in SavePostChange event

```
FSU_EORR_SUBMIT.GBL [component] SavePostChange

import PTAF_MONITOR:MONITOR:awStatusMonitor;
import HRS_AWE:WRAPPERS:AdhocAccessLogicBase;

Declare Function UpdateStatus PeopleCode FSU_EORR_WRK.HMAF_STATUS FieldFormula;
Component string &strEORRAprvInd;
Global string &FSU_Resubmit;

Component HRS_AWE:INTERFACES:ILaunchManager &LaunchMgr;
Component HRS_AWE:INTERFACES:IApprovalManager &AprvMgr;
rem Component HRS_AWE:INTERFACES:IStatusMonitor &StatusMonitor;
Component PTAF_MONITOR:MONITOR:awStatusMonitor &StatusMonitor;
Component PTAF_MONITOR:MONITOR:awStatusMonitor &monitor;
rem Local string &strSetID = GetSetId(Field.BUSINESS_UNIT, FSU_ROLEWF_HDR.BUSINESS_UNIT, "SAC_AW_PRCs", "");
Local string &strSetID = FSU_ROLEWF_HDR.SETID;

&eORR_WF = create FSU_EORR_WORKFLOW:FSU_SUBMIT_EORR_WF();
&eORR_WF_UI = create FSU_EORR_WORKFLOW:FSU_EORR_UI();

Local Record &recEORRCopy = CreateRecord(Record.FSU_ROLEWF_HDR);
GetRecord(Record.FSU_ROLEWF_HDR).CopyFieldsTo(&recEORRCopy);

&AprvFactory = create HRS_AWE:ApprovalsFactory();

&AprvMgr = &AprvFactory.getApprovalManager("FSU_EORR", &recEORRCopy, %OperatorId);
&LaunchMgr = &eORR_WF.FSU_Init_eORR_Approval(&recEORRCopy);

If &strEORRAprvInd = "S" And
    &FSU_Resubmit <> "Y" Then

    /* This is the submit to the FSU approvals app package. */
    &eORR_WF.FSU_Submit_eORR_Approval(&recEORRCopy);

    /* Below is what does the UI formatting and displays things to the user. */
    &eORR_WF_UI.FSU_EORR_displayAprvMonitor();
    &eORR_WF.FSU_saveAdhocSteps();
    &eORR_WF.FSU_do_submit_cleanup();

End-If;
```


Code used to Submit transaction

- Use delivered method DoSubmit method to Submit transaction for Workflow

```
import HRS_AWE:INTERFACES:ILaunchManager;
import HRS_AWE:INTERFACES:IApprovalManager;
import HRS_AWE:ApprovalsFactory;
import FSU_EORR_WORKFLOW:COMMON:Exception;

/* Class FSU_SUBMIT_eORR_WF
Module: eORR Workflow */

class FSU_SUBMIT_EORR_WF
method FSU_Submit_eORR_Approval(&recEORR As Record);
method FSU_Init_eORR_Approval(&recEORR As Record) Returns HRS_AWE:INTERFACES:ILaunchManager;
method FSU_saveAdhocSteps();
method FSU_do_submit_cleanup();
/* private
instance HRS_AWE:ApprovalsFactory &AprvFactory;
instance HRS_AWE:INTERFACES:ILaunchManager &LaunchMgr; */
end-class;

Component string &streORRAprvInd;
Component HRS_AWE:ApprovalsFactory &AprvFactory;
Component HRS_AWE:INTERFACES:ILaunchManager &LaunchMgr;
Component HRS_AWE:INTERFACES:IApprovalManager &AprvMgr;

/* This Method is what submits the eORR for Approvals */
method FSU_Submit_eORR_Approval
/+ &recEORR as Record +/

&LaunchMgr = %This.FSU_Init_eORR_Approval(&recEORR);
If &LaunchMgr.submitEnabled Then
/* &LaunchMgr.requester = &HR.getOprID(&recJO.MANAGER_ID.Value); */
&LaunchMgr.requester = %OperatorId;
&LaunchMgr.DoSubmit();
End-If;
end-method;
```

Code to Approve/Deny transaction

- When Users Approve or Deny a Transaction
 - Use DoApproveRowSet or DoDenyRowSet methods to approve or deny line level transactions
 - Use DoApprove or DoDeny methods to approve or deny header level transactions

```
If &Approve_transaction = "Y" Then
  &FSU_Global_Approve = "Y";
  &strEORRAprvInd = "A";
  &AprvMgr.DoApproveRowSet(&rsRoleWFLine); ←
End-If;

If &Deny_transaction = "Y" Then

  &strEORRAprvInd = "D";
  &AprvMgr.DoDenyRowSet(&rsDenyRoleWFLine); ←
End-If;
```

Application Message

- Created two Application messages (Services)
 - Synchronous message to fetch the existing roles for employee from other PeopleSoft apps
 - Asynchronous message to add/delete roles

The screenshot shows the configuration page for a synchronous application message. The 'General' tab is active, displaying the following details:

- Service Operation:** FSU_ROLE_REQUEST
- Service:** FSU_ROLE_REQUEST
- Operation Type:** Synchronous
- *Operation Description:** eORR: Role Request
- Object Owner ID:** Workflow
- Operation Alias:** (empty)

The 'Default Service Operation Version' section shows:

- *Version:** VERSION_1
- Version Description:** eORR: Role Request
- Routing Status:** Any-to-Local: Does not exist, Local-to-Local: Does not exist
- Routing Actions Upon Save:** Generate Any-to-Local, Generate Local-to-Local (both unchecked)
- Non-Repudiation:** (unchecked)
- Runtime Schema Validation:** (unchecked)

The 'Message Information' section shows:

- Type:** Request
- Message.Version:** FSU_ROLE_REQUEST.VERSION_1
- Type:** Response
- Message.Version:** FSU_ROLE_REPLY.VERSION_1

The screenshot shows the configuration page for an asynchronous application message. The 'General' tab is active, displaying the following details:

- Service Operation:** FSU_USER_ROLEMAINTN
- Service:** FSU_USER_ROLEMAINTN
- Operation Type:** Asynchronous - One Way
- *Operation Description:** eORR: User profile role
- Object Owner ID:** Workflow
- Operation Alias:** (empty)

The 'Default Service Operation Version' section shows:

- *Version:** VERSION_1
- Version Description:** eORR: User profile role
- Routing Status:** Any-to-Local: Does not exist, Local-to-Local: Does not exist
- Routing Actions Upon Save:** Generate Any-to-Local, Generate Local-to-Local (both unchecked)
- Non-Repudiation:** (unchecked)
- Runtime Schema Validation:** (unchecked)

The 'Message Information' section shows:

- Type:** Request
- Message.Version:** FSU_USER_ROLEMAINTN.VERSION_1
- *Queue Name:** FSU_USER_ROLEMAINTN

Application Message

- Code to fetch existing roles for an employee in other PeopleSoft suites (Financials) using a Synchronous application message

```
PUSH (field) FieldFormula
Function PopulateExistingRoles()
  Local Message &request, &response;
  Local Rowset &req_rowset, &rep_rowset;
  Local Record &req_rec, &rep_rec;
  Local Row &req_row;
  Local string &labelStr, &remPrefix, &prodRequested;
  Local any &PS_GL;
  Local SQL &getRoles;
  Local string &userid;

  &DisplayRolename = "";
  /*get userid of the employee*/
  &userid = getUserid();

  If FSU_ROLEWF_HDR.FSU_APP_SUITE = "FIN" Then

    If IsMessageActive(Message.FSU_ROLE_REQUEST) Then

      &request = CreateMessage(Message.FSU_ROLE_REQUEST);
      &req_rowset = CreateRowset(Record.FSU_ROLE_MSG_H);
      &req_rowset(1).GetRecord(Record.FSU_ROLE_MSG_H).GetField(Field.ROLEUSER).Value = &userid;

      &request.CopyRowset(&req_rowset);
      &response = &request.SyncRequest();
      If (&response.ResponseStatus = 0) Then
        &rep_rowset = &response.GetRowset();
        For &i = 1 To &rep_rowset.ActiveRowCount
          &rolename = &rep_rowset(&i).GetRecord(Record.FSU_ROLE_MSG_H).GetField(Field.ROLENAME).Value;
          /*Display only those roles that exists in Role Configuration tables*/
          SQLExec("Select 'X' from PS_FSU_ROLEAPR_HDR A Where A.Rolename = :1 AND A.FSU_APP_SUITE = :2 AND A.ROLESTATUS = 'A'");
          If All(&exists) Then
            &DisplayRolename = &DisplayRolename | Char(10) | &rolename;
          End-If;
        End-For;
      End-If;
    End-If;
  Else
    If FSU_ROLEWF_HDR.FSU_APP_SUITE = "HRMS" Then
      &getRoles = CreateSQL("SELECT ROLENAME FROM PSROLEUSER WHERE ROLEUSER = : 1", &userid);
      While &getRoles.Fetch(&rolename)
```

Application Message

- Code to Publish application messages on Final Approval to add roles in other PeopleSoft suites (Financials) using Asynchronous app message

```
EORR_Handler [application_class] OnExecute

end-try;

Break;
When = "FIN"
/* This part of the code sends a Async message to Fin to add the approved roles to the User profile*/
/* If IsMessageActive(Message.FSU_USER_ROLEMAINTN) Then*/
If %IntBroker.IsOperationActive(Message.FSU_USER_ROLEMAINTN) Then
  &EORR_ROLEMAINT_MSG = CreateMessage(Message.FSU_USER_ROLEMAINTN);
  &ROLEMAINT_RS = &EORR_ROLEMAINT_MSG.GetRowset();

  For &arrayIndex = 1 To &ApprovedRolesArray.Len
    If &m > 1 Then
      &ROLEMAINT_RS.InsertRow(&m - 1);
    End-If;
    &ROLEMAINT_RS.GetRow(&m).GetRecord(Record.FSU_RL_MANT_MSG).GetField(Field.ROLEUSER).Value = &oprid;
    &ROLEMAINT_RS.GetRow(&m).GetRecord(Record.FSU_RL_MANT_MSG).GetField(Field.ROLENAME).Value = LTrim(RTrim(&ApprovedRolesA
    &ROLEMAINT_RS.GetRow(&m).GetRecord(Record.FSU_RL_MANT_MSG).GetField(Field.FSU_ACTION_TYPE).Value = "ADD";
    &m = &m + 1;

  End-For;

  If None(&ROLEMAINT_RS.GetRow(1).GetRecord(Record.FSU_RL_MANT_MSG).GetField(Field.ROLENAME).Value) Then
    rem do nothing;
  Else
    %IntBroker.Publish(&EORR_ROLEMAINT_MSG); ←
  End-If
Else
  WinMessage("Message FSU_USER_ROLEMAINTN is NOT active", 0);
End-If;
Break;

End-Evaluate;
```

Questions?

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