

Workflow SIG

Session ID#: 15347

Monday April 7, 2014 02:10 PM - 03:10 PM Sands, Level 1 - 203

Prepared by:

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Please complete the session evaluation

We appreciate your feedback and insight

You may complete the session evaluation either on paper or online via the mobile app



Introduction

- John Peters, Independent Consultant
 Workflow SIG Coordinator
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- Karen Brownfield, Oracle Practice Director Infosemantics, Inc.

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We don't work for Oracle but we both have extensive

experience with the Oracle Workflow product



Back by Popular Demand!

OAUG Connection Point[®] — AppsTech July 22-23, 2014 Pre-conference Training: July 21, 2014 Pittsburgh Marriott City Center Pittsburgh, PA, USA

If you are a technologist that supports Oracle's E-Business Suite of applications, you won't want to miss this two-day seminar designed exclusively for you.

Presentation proposals are being accepted between February 19 and April 20 on the following topics:

- Applications Strategy and Service
- Applications Development
- Business Intelligence/ BI Analytics
- Database
- Middleware
- Upgrade



Connection Point SEMINARS

Submit your proposal at cp.oaug.org



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Who Should Attend

- Database Administrators
- Oracle Applications Database Administrators
- System Administrators supporting Oracle E-Business Suite
- Oracle Applications Developers
- Middleware Technologists supporting Oracle E-Business Suite
- Security Officers supporting Oracle E-Business Suite

Key Dates

- •February 19, 2014: Call for presentation proposals begins
- •April 1, 2014: Registration opens
- •April 20, 2014: Deadline to submit presentation proposals



Call for Presentation Proposals

Presentation proposals relaying best practices, customer success stories and how-to, deep-dive instruction will be accepted for the following educational tracks between February 19 and April 20, 2014:

- Applications Strategy and Service
- Applications Development
- Business Intelligence/ BI Analytics
- Database
- Middleware
- Upgrade



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TUNE N (C) to the OAUG

OAUG Membership Booth 1039

- Pick up OAUG earbuds
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- Grand prize: free registration for COLLABORATE 15.

Agenda

- Future of Workflow
- Current Workflow Functionality
- Future Workflow Enhancements
- Other resources for Workflow Information
- Questions and Answers



This Presentation is Posted

I will reference many My Oracle Support Notes, but don't worry about writing them all down. Just get one of these two URL's.

 This presentation is on the OAUG Workflow SIG web site: http://workflowsig.oaug.org/
 As well as my web site: http://jrpjr.com
 In fact that is what I am using here for this presentation

This presentation has been revised since it was initially uploaded to the conference presentation management system several months ago, so go to one of the above sites for the updated copy



Future of Workflow



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Future of Workflow

- De-supported as an Oracle product for Standalone use. <u>http://www.oracle.com/technetwork/middleware/ias/workflow-sod-089843.html</u>
- No longer part of the 11G DB install. Will be installed as a patch as part of the Apps Tech Stack.
- Still heavily used in R12 and will be supported by Applications Technology Group.
- R12 SubLedger Accounting use is on the rise replacing the Account Generators.
- Will not be used in Fusion.
- It is still being enhanced as a product and in R12 functional usage is being expanded (example PO Approvals now using AME)



Primary Replacements

- BPEL (Business Process Execution Language) Process
 Manager is the primary replacement for Workfow Technology.
- You can use BPEL Process Manager today with your 11i and R12 Applications.
- This is part of the Oracle SOA Suite, licensing might be required.
- SubLedger Accounting (SLA) replaces the Account Generator functionality currently in Workflow
- You can use SLA today in your R12 Applications
- No licensing required.
- Attend some of the BPEL sessions at Collaborate 14 to get some exposure to this powerful tool.



Workflow to BPEL Migration

- There will be no automated conversion/migration available.
- The technology while similar is too different to support an automated conversion
- A good reference on migrating to BPEL is:

Migrating to BPEL from Oracle Work Flow An Oracle White Paper March 2008 http://www.oracle.com/technetwork/middleware/ias/owf2bpel-132189.pdf



Collaborate14 BPEL Sessions

 Understanding the Basics of BPM/BPEL From an Oracle EBS Developers Background Thomas Korbecki, OAppsNet Mon 4/7 1:00 - 2:00, Sands, Level 1 – 305



OAUG SubLedger Accounting Refs

- Introduction to the Subledger Accounting Engine in Oracle R12 Thomas Simkiss, COLLABORATE 08
- Let Subledger Accounting Custom Sources Release You From Account Generator Workflows Manoj Menon, COLLABORATE 12
- Transitioning from Account Generators to the R12 Subledger Accounting Engine Alyssa Johnson, COLLABORATE 10
- Turbo-Charge Your Accounting With the Release 12 Subledger Accounting Engine Alyssa Johnson, COLLABORATE 12
- Demystifying the new Release 12.1 Subledger Accounting Engine Alyssa Johnson, OAUG Connection Point - Austin 2012



OAUG BPEL References

- BPEL Process Manager: Tips and Techniques Hilal Khan, COLLABORATE 07
- BPEL for Workflow Developers
 Jerry Ireland, COLLABORATE 08
- From Workflow to BPEL, Prepare for the Future Arian Stijf, COLLABORATE 12
- Oracle BPEL 11g Training Basheer Khan, COLLABORATE 10

- In order to access the OAUG Conference Presentation database you must be an OAUG Member
- One more reason to be an OAUG Member Company



Last Take Away Point on the Future of Workflow in EBS

- Workflow is a core component of the Oracle E-Business Suite
- Workflow continues to be enhanced by Oracle Development
- Workflow to support Oracle E-Business Suite will be with us for a long time



Current Workflow Functionality



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Workflow Analyzer Script

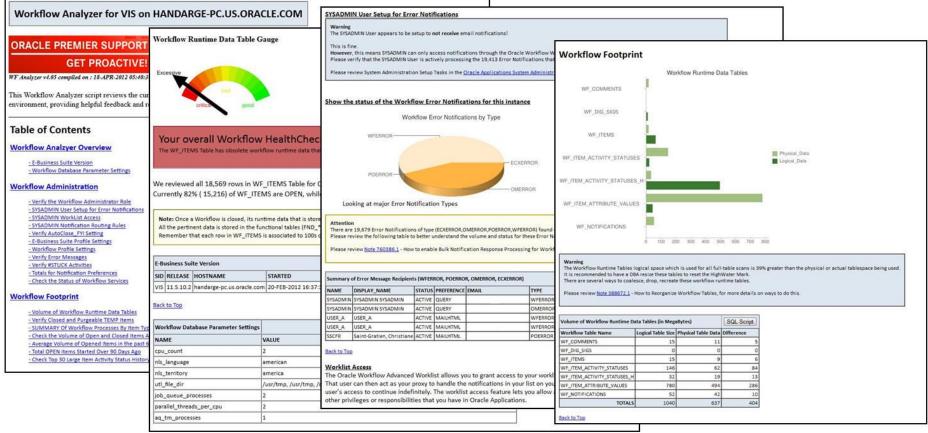
- Workflow Analyzer script for E-Business Suite Workflow Monitoring and Maintenance [ID 1369938.1]
 Latest Version (v5.06)
- How to run EBS Workflow Analyzer Tool as a Concurrent Request [ID 1425053.1]
- E-Business Suite Applications Technology Group (ATG) Advisor Webcasts [ID 1186338.1]
- This is a non-invasive SQL Script you can run against you system it will provide some very good information to help you manage the workflow product.



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Workflow Analyzer Script - Example

The script generates an HTML file which you can open in your browser





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Workflow Analyzer Script - Example

This script not only provides data it also has comments and suggestions in the output with references to My Oracle Support.

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<u>F</u> ile <u>E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp					
		•			
Note: JOB_QUEUE_PROCESSES for pre-11gR1 (11.1) databases: Oracle Workflow requires job queue processes to handle propagation of Business Event System event messages by AQs. The recommended minimum number of JOB_QUEUE_PROCESSES for Oracle Workflow is 10. The maximum number of JOB_QUEUE_PROCESSES is : - 36 in Oracle8i - 1,000 in Oracle9i Database and higher, so set the value of JOB_QUEUE_PROCESSES accordingly. The ideal setting for JOB_QUEUE_PROCESSES should be set to the maximum number of jobs that would ever be run concurrently on a system PLUS a few more. To determine the proper amount of JOB_QUEUE_PROCESSES for Oracle Workflow, follow the queries outlined in Note 578831.1 - How to determine the correct setting for JOB_QUEUE_PROCESSES.		(2)			
Note: Significance of the AQ_TM_PROCESSES for 10gR1+ (10.1) databases: Starting from 10gR1, Queue Monitoring can utilize a feature called "auto-tune". That means Queue Monitoring does not need AQ_TM_PROCESSES to be defined, it is instead able to adapt to the number of AQ background processes to the system load. However, if you do specify a value, then that value is taken into account but the number of processes can still be auto-tuned and so the number of running qXXX processes can be different from what was specified by AQ_TM_PROCESSES. Oracle Workflow recommends to UNSET the AQ_TM_PROCESSES parameter as per DB recommendations to enable auto-tune feature.					
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Workflow Analyzer Script - Example

You can get the SQL that was run for each result (in case you want to drill deeper or filter differently).

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Dack to TOP		
Workflow Database Parameter Settings		SQL Script
	n ('AQ_TM_PROCESSES','JOB_QUEUE_PROCESSES','JOB_QUEUE_INTERVAL', ANGUAGE', 'NLS_TERRITORY', 'CPU_COUNT', PER_CPU');	
NAME	VALUE	
cpu_count	4	
nls_language	american	
nls_territory	america	
utl_file_dir	/usr/tmp, /usr/tmp/applptmp/ordev1, /usr/tmp, /oracle/11i/ORDEV1/ordev1db/10.2.0/appsutil/outbound/ORDEV1_dragon, /oracle/11i/ORDEV1/ordev1db/10.2.0/appsutil/outbound/ORDEV1_dragon, /usr/tmp	
job_queue_processes	2	
parallel_threads_per_cpu	2	
aq_tm_processes	1	
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PO Approvals Using AME

- AME will allow add: Approvers, Reviewers, E-Signers
- AME will allow any Purchase Order to be withdrawn as long as the approval status is 'In Process'
- 12.1 AME : Approval, E-Review, E-Sign and Withdrawal Features for Purchase Orders [ID 1487661.1]

-This note details the patches, setup steps, and functionality provided along with videos

12.1.3 - Required Setups For Purchase Order Approval Using Approvals Management Engine (AME) [ID 1487713.1]



New Workflist Features

- Patch 13646173 for 12.1.3 introduces some new Worklist features
 - See the last action and comments from the approver on top of a notification
 - Submitter can reassign a request for information notification
 - Actual sent date comes from the reassign action
- Notification counts show up in the corner of the screen



R12.2 Changes

Deferring Worklist Response Processing You can defer user Worklist Responses to Workflow Background Process, allowing the users session to immediately return control to the user.



R12.2 Changes

Oracle Workflow E-mail Character Encoding Configuration

Workflow Administrator can now specify the character encoding for each language in workflow notifications.



R12.2 Changes (actually in 12.1.3) #RELATED_HISTORY

- You can now use the special message attribute #RELATED_HISTORY to include the action history of another notification within response-required notifications as well as within FYI notifications.
- The value you set the attribute to is: {TITLE}[ITEM_TYPE:ITEM_KEY]PROCESS_NAME:ACTIVITY_LABEL_NAME

Oracle Applications Home Page >									
Simple Fwk Response Message - 4682813 (Fwk Content)									
Approve Reject To Smith, Jonathan Sent 16-Nov-2012 14:34:55 ID 4682813 This is some simple text with hardcoded HTML tags and without tokens that will prompt the notification system to consider this as Fwk content. The final content for the e-mail will be contructed by the Fwk content									
on History									
					ory of the current approval notification				
Action Date	Action	From	То		Details				
16-Nov-2012 14:34:55	Submit	Workflow System	<u>Smith, Jonathan</u>						
ed Action History									
				Action Hist	ory from a previous approval notification				
Action Date	Action	From	То		Details				
16-Nov-2012 14:33:44	Submit	Workflow System	Smith, Jonathan						
16-Nov-2012 14:34:18	Reject	Smith, Jonathan	Workflow System						
16-Nov-2012 14:34:24	Reject	Smith, Jonathan	Workflow System						
16-Nov-2012 14:34:28	Approve	Smith, Jonathan	Workflow System						
	Fwk Response Message - 4682813 (o Smith, Jonathan t 16-Nov-2012 14:34:55 D 4682813 s is some simple text with hardcoded ifications with Fwk content. In History Action Date 16-Nov-2012 14:34:55 Seed Action History Action Date 16-Nov-2012 14:33:44 16-Nov-2012 14:33:44 16-Nov-2012 14:34:18 16-Nov-2012 14:34:24	Fwk Response Message - 4682813 (Fwk Content) o Smith, Jonathan t 16-Nov-2012 14:34:55 D 4682813 s is some simple text with hardcoded HTML tags and without tokens that will prompt ifications with Fwk content. n History Action Date Action 16-Nov-2012 14:34:55 Submit Action Date Action 16-Nov-2012 14:33:44 Submit 16-Nov-2012 14:33:44 Submit 16-Nov-2012 14:34:18 Reject 16-Nov-2012 14:34:24 Reject	Fwk Response Message - 4682813 (Fwk Content) o Smith, Jonathan t 16-Nov-2012 14:34:55 D 4682813 s is some simple text with hardcoded HTML tags and without tokens that will prompt the notification system to consider this ifications with Fwk content. In History Action Date Action 16-Nov-2012 14:34:55 Submit Workflow System ted Action History Action Date Action 16-Nov-2012 14:33:44 Submit 16-Nov-2012 14:33:44 Submit 16-Nov-2012 14:34:18 Reject 16-Nov-2012 14:34:24 Reject	Fwk Response Message - 4682813 (Fwk Content) o Smith, Jonathan t 16-Nov-2012 14:34:55 o 4682813 s is some simple text with hardcoded HTML tags and without tokens that will prompt the notification system to consider this as Fwk content. The final fications with Fwk content. n History Action Date Action 16-Nov-2012 14:34:55 Submit Submit Workflow System See Action History Action Date Action From To 16-Nov-2012 14:33:44 Submit Submit Workflow System 16-Nov-2012 14:33:44 Submit 16-Nov-2012 14:34:18 Reject 16-Nov-2012 14:34:24 Reject Smith, Jonathan Workflow System	Fwk Response Message - 4682813 (Fwk Content) o Smith, Jonathan t 16-Nov-2012 14:34:55 o 4682813 s is some simple text with hardcoded HTML tags and without tokens that will prompt the notification system to consider this as Fwk content. The final content for fifications with Fwk content. n History Action Date Action I-Nov-2012 14:34:55 Submit Vorkflow System Smith, Jonathan Action History Action History Action Date Action From To 16-Nov-2012 14:33:44 Submit Submit Workflow System Smith, Jonathan 16-Nov-2012 14:34:18 Reject Smith, Jonathan 16-Nov-2012 14:34:24 Reject Smith, Jonathan Workflow System				



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R12.2 Changes (actually in 12.1.3)

Worklist Usability Enhancements

- A user who receives a request for more information can now transfer that request to another user and include a comment to that user.
- Improvements on the Date Sent for reassigned notifications now showing the date of the reassignment, not the original notification date.
- Notification Details displays if the notification has been delegated or transferred along with any comment provided.
- Worklist Icon can be displayed on all OAF based pages. Enable the Profile Option 'WF: Enable Worklist Global Header'



Workflow Lives On! in R12

- So yes Workflow continues to live on, even though it has been desupported for standalone use.
- For more information:

Oracle E-Business Suite Releases 12.1 and 12.2 Release Content Documents [ID 1302189.1]



Future Workflow Enhancements



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Future Enhancements

- At this time we don't know of any future Workflow Enhancements.
- Oracle is very interested in Workflow Enhancements from the user community.
 - Put a posting up in the My Oracle Support Community <u>https://community.oracle.com/community/support/oracle_e-</u> <u>business_suite/core_workflow</u>
 - Drop me an email on the topic so we can help push it through Oracle: john.peters@jrpjr.com



Other Resources for Workflow Information



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Workflow Product Information Center

 E-Business Suite: Oracle Workflow (WF) Product Information Center (PIC) [ID 1320509.1]



Collaborate14 WorkFlow Presentations

- Workflow Troubleshooting in R12 Karen Brownfield, Infosemantics, Inc Tue, 4/8, 4:15 – 5:15, Sands, Level 1 – 305
- Making Workflow Flow Jerry Ireland, Rightsizing, Inc. Thu, 4/10 4:15 – 5:15, Sands, Level 1 – 305



Web Resources

Workflow SIG Web Site

http://workflowsig.oaug.org/

Workfow Blog

http://blogs.oracle.com/oracleworkflow Great information on using GMAIL SMTP and IMAP servers

My Oracle Support Community

https://community.oracle.com/community/support/oracle_ebusiness_suite/core_workflow

Integration Blog

http://blogs.oracle.com/ebusinesssuiteintegration



Karen Brownfield, InfoSemantics

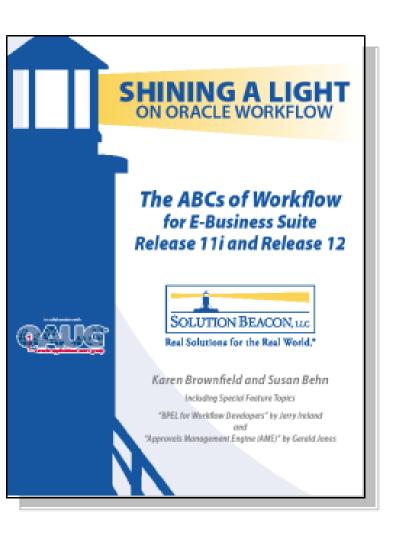
List of Recommended Patches http://workflowsig.oaug.org/reference_files/Karen_Brownfield _latest_WF_patches_2014.xlsx

Notes on 'Instant Client for Microsoft Windows' install

http://workflowsig.oaug.org/reference_files/Karen_Brownfield _Create_11g_Oracle_Home.docx



Karen Brownfields reference book on Workflow



To purchase either the hard copy or electronic book

http://lulu.com

Search for: The ABCs of Workflow for E-Business Suite Release 11i and Release 12 \$69.99



Thank You For Attending

John Peters, JRPJR, Inc john.peters@jrpjr.com

This paper is posted on my web site along with many others I have done over the years: http://jrpjr.com/

Click on Paper Archives on the right hand side, then: Collaborate14 – Workflow SIG



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Questions? Comments?

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