

Validating the Oracle EBS Purchasing Hierarchy

Presented by Talbott Jones

Introductions

- Talbott Jones
 - Consultant at Colibri Information Management
 - Oracle EBS since 1997
 - General Ledger
 - Purchasing
 - Payables
 - Inventory
 - MBA – Old Dominion University
 - CPA

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Colibri Information Management

- Provides services “Exclusively” for Oracle Applications and RDBMS
- Each consultant has a minimum of 8 years Oracle experience.
- Web Site
 - <http://www.Colibrilimited.com>

Purchasing Hierarchy

- Purpose - Why we have a purchasing hierarchy
- Method - How it works
- Support Issues - Problems that could arise
- Input - How we enter the hierarchy
- Validation - How we know it is correct

Purpose

- Internal Control – Right people have authority
- Automate Processes – Approval, Notification
- Reduce Errors – Amount, Quantity, Account
- Reduce Clutter – See what you need to see

Method

- Human Resources Data
 - Job vs. Position
- Purchasing Configuration
 - iProcurement
 - Standard Purchasing
- Workflow

Support Issues

- Access Denied
- Not Approving
- PO not visible to Approver
- Stuck In Workflow

Input

- Preparation
 - Gather Data
 - Spreadsheet / Checklist
- Forms
 - Approval Groups
 - Approval Assignments (by Job or Position)

Input Forms

- Approval Groups
- Approval Assignments

Approval Groups

- Approval Groups form

The screenshot shows a software window titled "Approval Groups". It contains the following fields and sections:

- Operating Unit:** Vision Operations
- Name:** Manager - PO Demo
- Description:** Manager approves up to \$50,000
- Enabled:**
- Approval Rules:** A table with columns for Object, Type, Amount Limit, Low Value, and High Value.

Object	Type	Amount Limit	Low Value	High Value
Document Total	Include	50,000.00		
Account Range	Include	50,000.00	00-000-0000-0000-	99-999-9999-999

Approval Assignments

- Approval Assignment form

Operating Unit: Vision Operations
Position:
Job:
Organization:
Approval Assignments

Document Type	Approval Group	From	To	[]

Document Types

- Blanket Purchase Agreements
- Blanket Releases
- Contract Purchase Orders
- Internal Requisitions
- Planned Purchase Orders
- Purchase Requisitions
- Scheduled Releases
- Standard Purchase Orders

Validation

- Definition – System demonstration that hierarchy matches intended input
- When
- How
 - Standard Reports
 - Position Hierarchy
 - Queries

Validation - When

- Initial Configuration
- Hierarchy Maintenance
- Human Resources Maintenance
 - Before and After
- Audit

Validation Query Assumptions

- Using the Job hierarchy method
- Query tool
 - TOAD
 - SQL Developer
- Login Access

Validation Queries

(Continued)

- **Approval Assignments Query**
Lists Approval Group Assignments
- **Approval Structures Query**
Lists rules of the hierarchy
- **Buyer Limits Query**
Lists buyers with their spend limits
- **Approval Eligible Query**
Lists who would have a spending authority, if given a responsibility

Approval Assignments Query

```
SELECT -- Lists approval group assignments
  haou.name operating_unit
  ,pj.name job
  ,pcf.control_function_name document_type
  ,pcg.control_group_name approval_group
-- ,ppca.start_date
-- ,ppca.end_date
-- ,ppca.control_function_id cf
```

FROM

```
  apps.po_control_groups_all pcg,
  apps.po_position_controls_all ppca,
  apps.po_control_functions pcf,
  apps.per_jobs pj,
  apps.hr_all_organization_units haou
```

WHERE

```
  haou.organization_id = ppca.org_id and
  pcf.control_function_id = ppca.control_function_id and
  pj.job_id = ppca.job_id and
  pcg.control_group_id = ppca.control_group_id (+)
```

ORDER BY

```
  1, 2, 3, 4;
```

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Approvals Structure Query

SELECT -- Lists rules

```
distinct
pcg.control_group_name,
pcg.description,
pcr.rule_type_code rule_type,
pcr.object_code,
pcr.amount_limit,
case when pcr.object_code = 'account_range' then (nvl(pcr.segment1_low,'x'))||'-'||
nvl(pcr.segment2_low,'x')||'-'||
nvl(pcr.segment3_low,'x')||'-'||
nvl(pcr.segment4_low,'x')) else 'n/a' end as low_range,
case when pcr.object_code = 'account_range' then (nvl(pcr.segment1_high,'x'))||'-'||
nvl(pcr.segment2_high,'x')||'-'||
nvl(pcr.segment3_high,'x')||'-'||
nvl(pcr.segment4_high,'x')) else 'n/a' end as high_range
-- ,pcr.last_update_date
```

FROM

```
apps.po_control_groups_all pcg,
apps.po_control_rules pcr,
apps.po_position_controls_all ppca
```

WHERE

```
pcg.control_group_id = pcr.control_group_id and
pcr.control_group_id = ppca.control_group_id (+)
```

ORDER BY

```
1,2,3;
```

Buyer Limits Query

SELECT -- lists buyers and their spend limits.

```
buyers.agent_name,  
buyers.agent_id,  
buyers.user_name,  
limits.std_po_limit,  
limits.control_group_name,  
buyers.job_name,  
buyers.supervisor
```

FROM

```
(SELECT -- nested query building buyer information  
pov.agent_name,  
pov.agent_id,  
fu.user_name,  
pj.name job_name,  
ppx.full_name supervisor  
FROM  
apps.fnd_user fu,  
apps.per_assignments_x pax,  
apps.per_people_x ppx,  
apps.per_jobs pj,  
apps.po_agents_v pov  
WHERE  
(pov.end_date_active is null or pov.end_date_active > sysdate) and  
fu.employee_id = pov.agent_id and  
pov.agent_id = pax.person_id and  
ppx.person_id = pax.supervisor_id and  
pax.job_id = pj.job_id and  
sysdate between pj.date_from and  
nvl(pj.date_to,'31-dec-4712')  
)BUYERS,
```

```
(SELECT -- nested query building limits information  
pcr.amount_limit std_po_limit,  
pcg.control_group_name,  
pj.name job_name  
FROM  
apps.hr_organization_units hou,  
apps.po_control_groups_all pcg,  
apps.po_control_rules pcr,  
apps.po_position_controls_all ppca,  
apps.per_jobs pj  
WHERE  
hou.organization_id = pcg.org_id and  
pcg.control_group_id = pcr.control_group_id and  
ppca.job_id = pj.job_id and  
ppca.control_function_id = 1 and  
pcr.control_group_id = ppca.control_group_id and  
object_code = 'document_total' and  
sysdate between pj.date_from and  
nvl(pj.date_to,'31-dec-4712')  
)LIMITS
```

WHERE

```
limits.job_name (+) = buyers.job_name  
order by 6, 1  
;
```

Approval Eligible Query

```
SELECT  
distinct  
ee.full_name  
,ee.job_name  
,pcg.control_group_name  
,pcr.amount_limit doc_limit
```

```
FROM  
apps.po_control_groups_all pcg,  
apps.po_control_rules pcr,  
apps.po_position_controls_all ppca,  
(SELECT distinct – nested query building employee information  
ppx.full_name  
,pj.job_id  
,pj.name job_name  
FROM dual,  
apps.hr_organization_units hou,  
apps.per_assignments_x pax,  
apps.per_jobs pj,  
apps.per_people_x ppx  
WHERE  
pax.person_id = ppx.person_id and  
pax.job_id = pj.job_id and  
sysdate between pj.date_from and  
nvl(pj.date_to,'31-dec-4712')  
and ppx.current_employee_flag = 'y'  
) ee
```

This query lists employees who would have some level of spending authority, if set up with the appropriate responsibility.

```
WHERE  
ee.job_id = ppca.job_id and  
pcr.object_code = 'document_total' and  
pcg.control_group_id = pcr.control_group_id and  
pcr.control_group_id = ppca.control_group_id (+)  
ORDER BY  
1;
```

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Questions

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