

ORACLE EBS--AME模块笔记

Approvals Management Engine

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Create Date: November 13th,2010
Update Date:
Control No:
Current Edition: 1.0

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日期	作者	版本	更改参考
November 10 th ,2010	jarwang	1.0	

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Preface

Oracle AME是Oracle Approvals Manager Engine的缩写，用于为EBS工作流事务处理定义审批规则。在EBS11i的采购模块中，定义审批规则也可以通过PO职位层次及审批组来实现。既然如此，为什么还要使用Oracle AME呢？^_^。阅读完成来文档后，您的这个问题自然就解答了。

What are the advantages of using Oracle Approvals Management?

Oracle Approvals Management enables you as a business user to specify the approval rules for an application without having to write code or customize the application. Once you define the rules for an application, that application communicates directly with AME to manage the approvals for the application's transactions.

参考文档：

http://download.oracle.com/docs/cd/B34956_01/current/acrobat/120ameig.pdf

<http://www.workflowfaq.com/roles-grants-for-ame>

<http://www.slideshare.net/dharmalingamks/oracle-applications-r12-approvals-management-engine-ame-training>

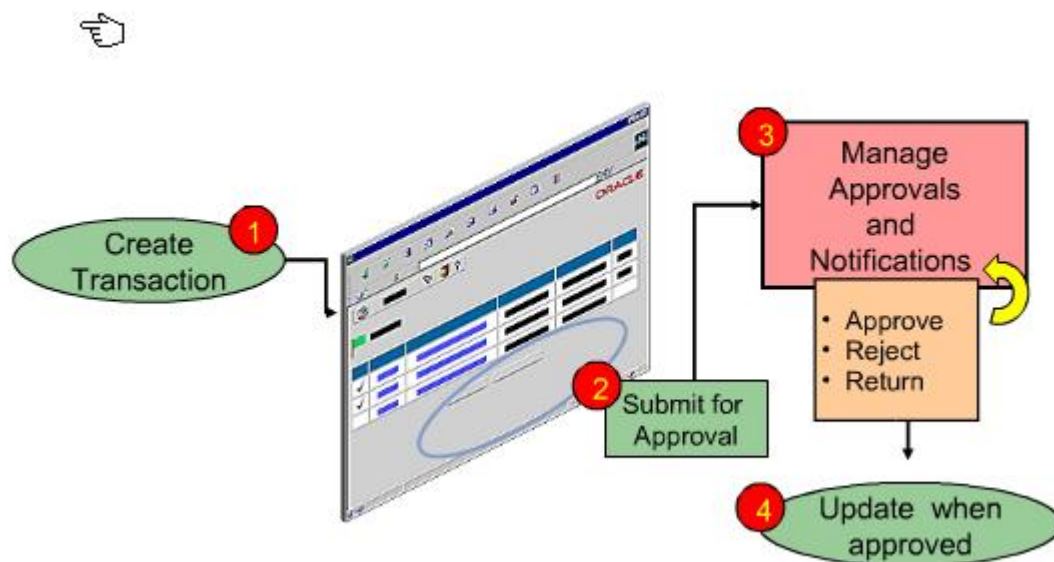
AME

Overview

AME Architecture

AME的流程框架图:

Business Processes for Transactions and approvals



具体而言，AME的执行逻辑：

- AME为 workflow 事务处理类型定义一组审批规则。
- workflow 事务处理类型与应用程序关联。
- 应用程序与AME直接通讯取得审批流程。
- 当应用程序初始创建和审批人审批时，都与AME通讯，直到所有审批人审批完成
- AME记录每次审批记录
- 当审批人对审批动作做出反映时重新计算审批人列表

AME and Workflow

Oracle Workflow与AME的关系：

- Oracle Workflow calls AME to get approvers.
- Notifications are sent via Workflow engine.
- Configure approvers using AME, messages and behavior upon approve/reject using Workflow.

Components

AME包括以下组件:

- 属性 (**Attributes**)
- 条件 (**Conditions**)
- 活动 (**Actions**)
- 审批组 (**Approver Groups**)
- 审批规则 (**Rules**)

AME Attributes

属性是具有单一值的与事务处理有关的变量。如: 费用报销的总金额,折扣百分比,物品分类等。

属性有两种类型:

1. 静态: 对所有事务使用固定值

用于全局业务变量或与运行无关的值, 如: **INCLUDE_ALL_JOB_LEVEL_APPROVERS**

2. 动态: 在**AME**执行时使用**SQL**查询取得属性值

如:

```
select cux_wf_pck.check (:transactionId) from dual
```

AME Conditions

一个**AME**条件就是一个真或假的声明, 条件必须应用到规则中。应用到事务处理类型上的规则, 其上的条件都必须为真。

条件类型:

普通 (Ordinary): 普通的条件与属性关连, 具有一系列允许的值或值的范围。

例外 (Exception): 例外的条件与普通的条件类似, 只是使用的场合不同。

列表修改 (List Modifier): 列表修改条件检查指定的人是否在缺省的审批人列表中出现。

例: 指定人是否是最终审批人。

AME Action

AME活动 (**Action**) 指示**AME**按指定的方式去修改事务处理类型的审批流程。每个活动都属于一个活动类型, 活动类型是具有相同活动的集合。

例: 绝对职务层次活动类型 (**absolute-job-level action type**) 要求按**HR**上级链审批到指定层次的职务的活动的集合, 不同的活动只是到具体的职务层次会不同。

活动类型分类:

1. 权限链 (**Chain of Authority**): 可分为**HR**上级层次、**HR**职位层次。

1.1HR上级层次 (HR Supervisory Hierarchy): 指根据HR的上级链查找审批人。

预定义的HR上级链的活动类型:

- 上级链 (Supervisory-Level)
- 绝对职务层次 (Absolute-Job-Level)
- 相对职务层次 (Relative-Job-Level)
- 上级和最终审批人 (Manager-then-Final-Approver)
- 最终审批人 (Final-Approver-Only)
- 双授权链 (Dual-Chains-of-Authority)

1.2.HR职位层次 (HR Position Hierarchy): 根据HR的职位链查找审批人。

预定义的HR职位链的活动类型:

- HR职位 (hr position): 指定结束职位 (ending with a specified position)
- 职位层次 (Position-Level): 指定层次 (generates a chain of authority having a specific length)

2.列表修改 (List Modification):

2.1 Final Authority: Grants signing authority to an approver.

2.2 Nonfinal Authority: Extends chain authority n levels past an approver (uses jobs).

3.替代 (Substitution): Replaces the target approver with another.

4.审批组 (Approver groups): 从指定审批组中查找审批人。

预定义的审批组的活动类型:

- 审批组 (Approver-Group Chain of Authority): 本身做为标准审批列表
- 前审批组 (Pre-Chain of Authority): 在标准审批列表前插入审批人列表
- 后审批组 (Post-Chain of Authority): 在标准审批列表后插入审批人列表

AME Approvals Groups

审批组 (Approver groups): 一个或多个审批人 (人员或系统用户) 的集合或者是规则在解析时动态产生的列表。

审批组的类型:

1. 静态: 直接指定审批人 (人员或系统用户)

2. 动态: 通过SQL查询返回审批人列表

如:

```
select cux_wf_pck.get_kq_person(:transactionId) from dual
```

审批组的投票方法:

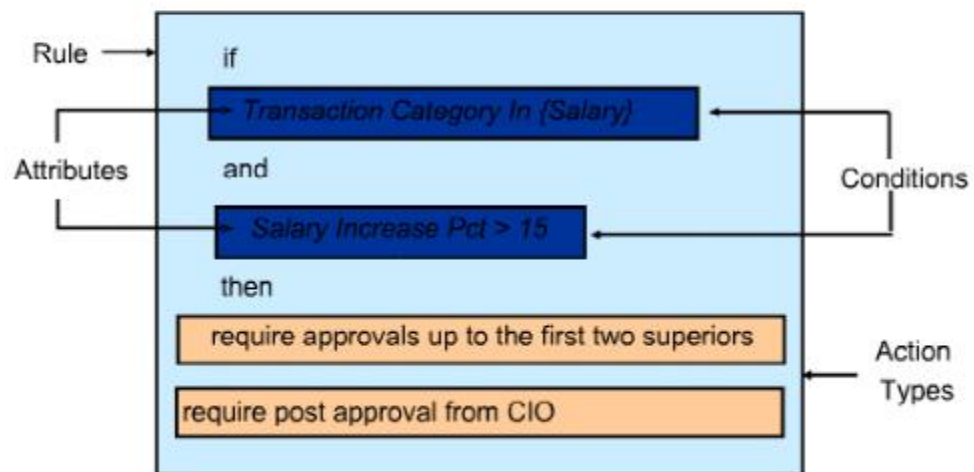
- 1.Serial: Members are notified one after the other according to their member order (ties broken arbitrarily). All members must approve.
- 2.Consensus: Members notified in parallel. All must approve.
- 3.First-Responder-Wins: Members notified in parallel. First responder = group's decision.
- 4.Order-Number: Members notified according to order, ties notified in parallel. All must respond.

AME Approvals Rule

AME审批规则由条件 (Conditions) 和活动 (Actions) 组成。

Approval Policies – AME Rules

Approval Policies translate to rules in AME and are made up of the following components:



AME审批规则 (Rules) :

List-Creation:

If invoice amount > \$1000 USD (condition), THEN require approval one job levels above requestor.

List-Creation Exception:

If invoice amount > \$500 USD and pay group = Employee, THEN require approval two job levels above requestor.

List-Modification:

If any approver = Sam Clark, THEN grant final authority.

Pre and Post:

If expenditure category = Computers, THEN require approval from IS department.

Setup

AME Profile

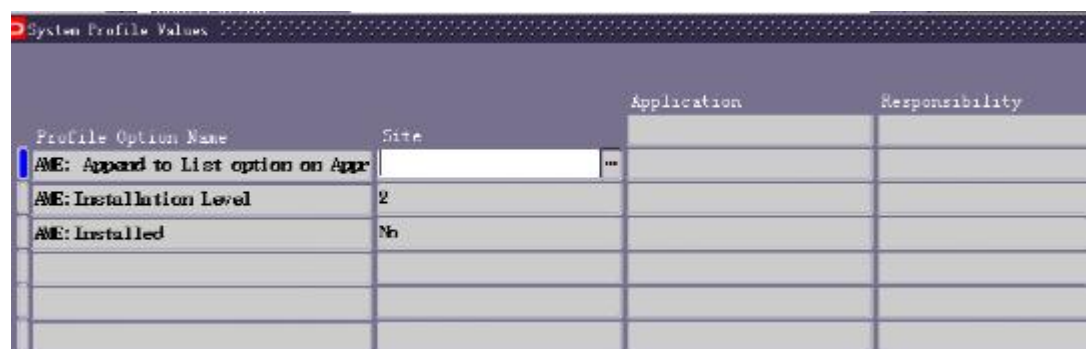
AME是与Oracle EBS11i一起安装好的，无须另外安装，但需要一些配置才能生效。

Setup Details – Profile Options

AME responsibilities can be directly assigned in 11i.AME.A. But in 11i.AME.B & R12 & higher, the responsibilities are assigned through roles.

- AME: Installed – Set this profile value to 'Yes' at required application level.
- HR:Defer Update After Approval: Set this profile value to 'No' to avoid the status 'Pending Approval' after transactions' approval.
- AME: Append to List option on Approvers region – To control the requesters/initiators to append approvers to the approval list. If set to the value 'No' would not allow the users to append the list.

操作路径: **System administrator=>Profile=>System**



Profile Option Name	Site	Application	Responsibility
AME: Append to List option on Approver			
AME: Installation Level	2		
AME: Installed	No		

Query AME Version

1. 查询一下AME “4428060” 补丁是否已应用。

4428060	Approval Management Engine: Patchset 11i.AME.B	11i	30-SEP-2005	47M
---------	---	-----	-------------	-----

此补丁是目前最新的AME版本补丁。

操作路径: **System=>Oracle Applications Manager=>Patching and Utilities**

Simple Search

At least one field must be completed.

Querying for a specific patch will return all patches that include the specified patch.

Patch ID

Applied From Date To Date

Language

Patch Name	Merged Patches
merged	3865683, 4059966, 4165000, 4428060, 4551936, 4873179, 5394384, 5473658, 5758363, 5974819, 6319699, 6334696, 6456814, 6471816, 7191186
merged	3865683, 4059966, 4165000, 4428060, 4551936, 4873179, 5394384, 5473658, 5758363, 5974819, 6319699, 6334696, 6456814, 6471816, 7191186
merged	3865683, 4059966, 4165000, 4428060, 4551936, 4873179, 5394384, 5473658, 5758363, 5974819, 6319699, 6334696, 6456814, 6471816, 7191186

2. 完整的AME版本SQL查询语句:

```
select decode(bug_number,
    '2614213',
    '2614213 (pre-11.5.10)',
    '2863619',
    '2863619 - (pre-11.5.10)',
    '3858763',
    'AME 11.5.10',
    '3962268',
    'AME.A',
    '4433707',
    'AME.A RUP',
    '4428060',
    'AME.B',
    '4873179',
    'AME.B RUP',
    '3333633',
    'HR FP J',
    '3500000',
    'HR FP K',
    '5055050',
    'HR FP K RUP1',
    '3140000',
    'Apps Release 11.5.10',
    '3640000',
    'Apps Release 11.5.10 CU1',
    '3480000',
    'Apps Release 11.5.10 CU2',
    'NONE') AME_LEVEL
from ad_bugs
where bug_number in ('2614213',
```

```
'2863619',  
'3858763',  
'3962268',  
'4433707',  
'4428060',  
'4873179',  
'3333633',  
'3500000',  
'5055050',  
'3140000',  
'3640000',  
'3480000',  
'5708576',  
'5337777');
```

Add Responsibility

给EBS用户分配AME以下职责:

“Approvals Management Business Analyst”

“Approvals Management Administrator”

登陆EBS环境,选择此职责时,报错:“There are no functions available for this responsibility”



这是因为没给AME用户授予AME角色及安全配置。

Roles for AME

以sysadmin用户登陆EBS。

操作路径: User Management=>User

1. 进入User页面, 查询出用户。

[Users](#) | [Roles & Role Inheritance](#) | [Role Categories](#) | [Registration Processes](#)

User Maintenance

Search for people and user accounts. All fields except "First Name" are case insensitive. For wildcard searches, please use "%"

Search

User Name: JARWANG Organization:

Email: Role:

Last Name:

First Name:

Register

Last Name	First Name	Email	User Name	Status	Create User	Reset Password	Update
JARWANG	<input type="text"/>		jarwang	Active			

点击“Update”图标。

[Users](#) | [Roles & Role Inheritance](#) | [Role Categories](#) | [Registration Processes](#)

[User Management](#) > [Users](#) >

Update User: Jarwang

Indicates required field

Prefix:

First Name: 中国

Middle Name: 部直民

Last Name: JARWANG

Suffix:

User Name: jarwang

Email:

Status: Active

* Active From: 10-Nov-2010

(example: 14-Nov-2010)

Active To:

[Roles](#) | [Contact Information](#)

Changes can only be made for roles you have been granted administrative privileges.

Details	Role	Description
<input type="button" value="Show"/>	人力资源	人力资源 用户菜单

2. 分配“Security Administrator”角色给AME用户。

点击Assign Roles按钮，输入“Security Administrator”

Search

To find your item, select a filter item in the pulldown list and enter a value in the text field, then select the "Go" button.

Search By: Roles and Responsibilities

Results

Select All | Select None

Select	Name	Description	Type	Code
<input type="checkbox"/>	Security Administrator	Security Administrators manage all user accounts in the system, and can assign / revoke all roles. Security Administrators also manage system accounts (such as GUEST), that are not tied to a person.	Role	UM01SECURITY_ADMIN

在Justification栏输入解释，然后点击“Apply”按钮。

Changes can only be made for roles you have been granted administrative privileges.

Assign Roles

Role	Description	Status
Show 人力资源	人力资源 用户菜单	Assigned
Show PO 新国航股份本部 SUPER USER		Assigned
Show 采购管理系统超级用户	GUI的 Oracle Purchasing 超级用户责任	Assigned
Show CARGO_AP_新系统管理员_本部	国航航本部系统管理员	Assigned
Show 机务费用报销AP审核员-网页_北京_本部	机务费用报销AP审核员-网页_北京_本部	Assigned
Show Oracle Internet Expenses 设置和管理		Assigned
Show 应付账款系统管理员		Assigned
Show 系统管理员	应用对象程序系统管理员	Assigned
Hide Security Administrator	Security Administrators manage all user accounts in the system, and can assign / revoke all roles. Security Administrators also manage system accounts (such as GUEST), that are not tied to a person.	Ready for Submission

Justification:

Active From: 14-Nov-2010

Active To:

Role Inheritance: 用户管理

3. 分配AME的功能给AME用户

Search

To find your item, select a filter item in the pulldown list and enter a value in the text field, then select the "Go" button.

Search By: Roles and Responsibilities

Results

Select All Select None			
Select	Name	Description	Type Code
<input type="checkbox"/>	Approvals Management System Viewer	Role has access to admin dashboard with view only access.	Role UMXJAME_ADM_VIEWER
<input type="checkbox"/>	Approvals Management Process Owner	Role can view all business dashboard view pages.	Role UMXJAME_BUS_PROCESS_OWNER
<input type="checkbox"/>	Approvals Management Administrator	Role inherits Process Owner role and System Administrator role. Can also create action type and can modify default config variables.	Role UMXJAME_APP_ADMIN
<input type="checkbox"/>	Approvals Management System Administrator	Role can create, update or delete transaction types. Also inherits System Viewer. Can access Exceptions log and config variables.	Role UMXJAME_TTYPE_ADMIN
<input type="checkbox"/>	Approvals Management Business Analyst	Role which gives full access to business dashboard pages. Does not have Default config variable access and Action Type Create Access.	Role UMXJAME_BUS_ANALYST

勾选上述五个功能，然后点击“**Select**”按钮。

Show	Approvals Management System Viewer	Role has access to admin dashboard with view only access.	Assigned
Show	Approvals Management Administrator	Role inherits Process Owner role and System Administrator role. Can also create action type and can modify default config variables.	Assigned
Show	Approvals Management Business Analyst	Role which gives full access to business dashboard pages. Does not have Default config variable access and Action Type Create Access.	Assigned
Show	Approvals Management Process Owner	Role can view all business dashboard view pages.	Assigned
Show	Approvals Management System Administrator	Role can create, update or delete transaction types. Also inherits System Viewer. Can access Exceptions log and config variables.	Assigned
Show	Security Administrator	Security Administrators manage all user accounts in the system, and can assign / revoke all roles. Security Administrators also manage system accounts (such as GUEST), that are not tied to a person.	Assigned

重新登陆“**Approvals Management Business Analyst**”职责。

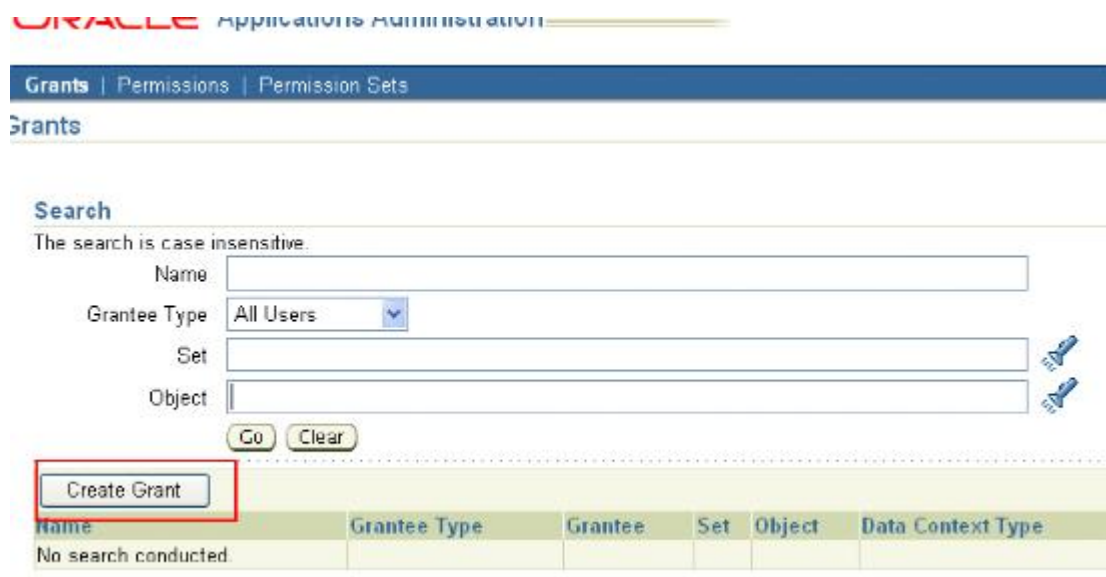


无法查询出Transaction Type。参考下一节的Grants for AME

Grants for AME

以sysadmin用户登陆EBS。

操作路径: Functional Administrator=>Home



点击Create Grant按钮

Grants | Permissions | Permission Sets

Define Grant | Select Object Data Context | Define Object Parameters and Select Set | Review and Finish

Create Grant: Define Grant

Indicates required field

Name: AME TEST ADMIN

Description:

Effective From: 18-Nov-2010 (example: 18-Nov-2010)

Effective To:

Security Context

Define the context when the grant is applied by selecting a grantee, a responsibility and/or operating unit.

Grantee Type: Specific User

Grantee: JARWANG, TEST

Operating Unit:

Responsibility:

Data Security

To define a data security policy, select an object.

Object: AME Transaction Types

Data Security的Object选择: AME Transaction Types

ORACLE Applications Administration

Grants | Permissions | Permission Sets

Define Grant | Select Object Data Context | Define Object Parameters and Select Set | Review and Finish

Create Grant: Select Object Data Context

Object: AME Transaction Types

Data Context Type: All Rows

Data Context Type选择All Rows。

Grants | Permissions | Permission Sets

Define Grant | Select Object Data Context | Define Object Parameters and Select Set | Review and Finish

Create Grant: Define Object Parameters and Select Set

Indicates required field

Data Security

Object: AME Transaction Types

Data Context

Type: All Rows

Name:

Description:

Set

Select the permission set or menu navigation set that defines the grantee's access.

Set: AME Calling Applications

Set选择AME Calling Applications。然后点击完成，这样问题就解决了。

Requisitions Approval Process Using AME

P/R采购申请流程使用AME审批批表。

Requisitions AME Profile

Setup AME Profile

设置采购模块的AME配置文件

操作路径: **System administrator=>Profile=>System**

Profile Option Name	Site	Application	Responsibility
AME: Append to List option on Appr		Purchasing	
AME: Installation Level	2		
AME: Installed	No	Yes	

Setup Document Type

设置采购模块的单据类型

操作路径: **PO=>Setup=>Purchasing=>DocumentType**

设置**Approval Workflow Type**的值为“**PURCHASE_REQ**”

Type	Subtype	Name	Quotation Class
Requisition	Purchase	Purchase Requisition	

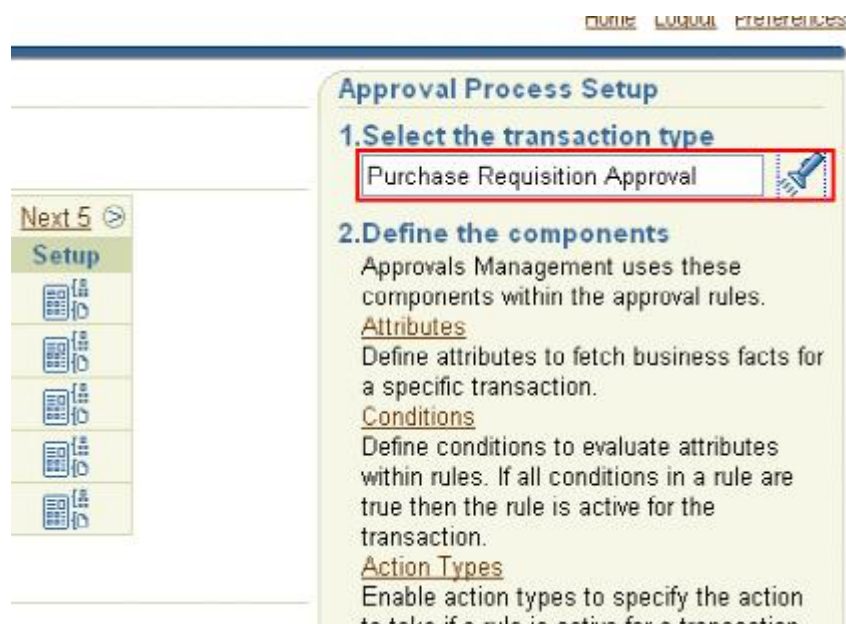
Attributes	
<input checked="" type="checkbox"/> Owner Can Approve	Security Level: Public
<input checked="" type="checkbox"/> Approver Can Modify	Access Level: Full
<input type="checkbox"/> Can Change Forward-To	Forward Method: Hierarchy
<input type="checkbox"/> Can Change Forward From	Archive on:
<input type="checkbox"/> Can Change Approval Hierarchy	Default Hierarchy:
<input type="checkbox"/> Disable	Approval Workflow: Requisition
<input type="checkbox"/> Use Contract Agreements for Auto Sour...	Workflow Startup Process: Main Requisition Approv
<input type="checkbox"/> Include Non-Catalog Requests	Approval Transaction Type: PURCHASE_REQ
	Autocreate Workflow: PO Create Documents
	Autocreate Workflow Startup Process: Overall Document Crea

Define Requisitions Scenarios

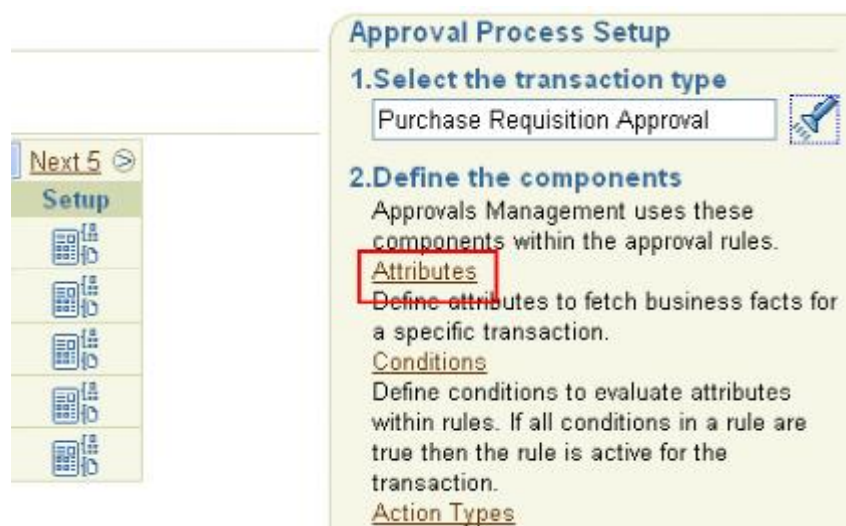
Create Attribute

操作路径: **Approvals Management Business Analyst=>Business Analyst Dashboard**

1. 选择事务类别: **Purchase Requisition Approval**



2. 点击 “Attribute”



3. 创建一个新的Attribute, 点击 “Create” 按钮。

本例以创建PR申请单的总金额Attribute为例（也可以使用系统中预设的Attribute）。

ORACLE® Approvals Management

Transaction Type: Purchase Requisition Approval

Attributes | Conditions | Action Types | Approver Groups

Attributes

This page enables you to view attributes present in your transaction type, create new, and reuse ex
a person's salary.

Search

Attribute Category: All
Item Class: All
Data Type: All
Name:

Attribute	Description
ALLOW DELETING RULE GENERATED APPROVERS	whether to let the calling application (or its end users) delete approvers generated by the rules

4. 输入Attribute的值

a value set that contains business specific data for Number, String, and Currency data types.

* Name: Total Amount--Jarwang
Item Class: Header
* Description: Total Amount

Data Type: Currency
Approver Type:
Value Set:
Usage Type: Dynamic

* Value:

```
SELECT nvl(SUM(decode(order_type_lookup_code,
    'RATE',
    amount,
    'FIXED PRICE',
    amount,
    quantity * unit_price)),
    0),
    po_ame_setup_pvt.get_function_currency(max(pl.requisition_header_id)),
    po_ame_setup_pvt.get_rate_type(max(pl.requisition_header_id))
from po_requisition_lines_all pl
```

Enter SQL query for dynamic attributes.

Value栏的值输入:

```
SELECT nvl(SUM(decode(order_type_lookup_code,
    'RATE',
    amount,
    'FIXED PRICE',
    amount,
    quantity * unit_price)),
    0),
    po_ame_setup_pvt.get_function_currency(max(pl.requisition_header_id)),
    po_ame_setup_pvt.get_rate_type(max(pl.requisition_header_id))
from po_requisition_lines_all pl
```

```
where requisition_header_id =  
    po_ame_setup_pvt.get_new_req_header_id(:transactionId)  
and  
    nvl(cancel_flag, 'N') = 'N'  
and nvl(modified_by_agent_flag, 'N') = 'N'
```

然后点击“**Apply**”按钮，这样**Attribute**就创建完成了。

Create Conditions

1. 创建条件，点击“**Conditions**”按钮。

The screenshot shows the Oracle Approvals Management interface. The top navigation bar includes 'Attributes', 'Conditions' (highlighted with a red box), 'Action Types', and 'Approver Groups'. Below the navigation bar, a confirmation message states: 'Attribute Total Amount--Jarwang has been created successfully.' The main section is titled 'Attributes' and contains a search form with fields for 'Attribute Category', 'Item Class', 'Data Type', and 'Name'. Each of the first three fields has a dropdown menu set to 'All'. There are 'Go' and 'Clear' buttons at the bottom of the search form.

2. 点击“**Create**”按钮

The screenshot shows the Oracle Approvals Management interface with the 'Conditions' tab selected (highlighted with a red box). The sub-tab 'Regular' is active, and the 'List Modifiers' button is visible. The search form below has fields for 'Item Class' (dropdown set to 'All'), 'Condition Type' (dropdown set to 'All'), and 'Attribute' (text input). There are 'Go' and 'Clear' buttons. A red arrow points from the 'Create' button (located below the search form) to the 'Conditions' tab. Below the search form, a message states: 'No data exists.'

3. 创建一个条件：即PR申请的金额大于0且小于等于500

ORACLE Approvals Management
Transaction Type: Purchase Requisition Approval

Attributes | **Conditions** | Action Types | Approver Groups

[Return to Conditions](#) >

Create New Condition
Indicates required field

Condition Type: Ordinary

* Attribute: TOTAL AMOUNT--JARWANG

Expression

Currency Code: RMB

TOTAL AMOUNT--JARWANG is greater than 0 and less than or equal to 500

Limit

注：在**Attribute**栏中选择前面创建的**Attribute**。

保存完成后，重复上面的步骤，再创建一个条件。即PR申请的金额大于500。

ORACLE Approvals Management
Transaction Type: Purchase Requisition Approval

Attributes | **Conditions** | Action Types | Approver Groups

[Return to Conditions](#) >

Create New Condition
Indicates required field

Condition Type: Ordinary

* Attribute: TOTAL AMOUNT--JARWANG

Expression

Currency Code: RMB

TOTAL AMOUNT--JARWANG is greater than 500

Create Action

1. 创建**Action Type**，点击“**Use Existing Action Type**”按钮。

Transaction Type: Purchase Requisition Approval

Attributes | Conditions | **Action Types** | Approver Groups

Action Types

To reinstate changed configuration details to original values click Revert.

Search

Rule Type: All

Select Name	Description	Rule Type
No data exists.		

Action	Update
No data exists.	

2. 选择标准权限链“**approval-group chain of authority**”

Use Existing Action Type: Select Action Types

Select one or more action types and click Continue to use them in the current transaction type.

Search

Rule Type: All

ate indicates already available in Purchase Requisition Approval

Select All | Select None

Select/Name	Description	State Type
<input type="checkbox"/> absolute job level	chains of authority based on absolute job level	Chain Of Authority
<input checked="" type="checkbox"/> approval-group chain of authority	chain of authority includes an approval group	Chain Of Authority
<input type="checkbox"/> dual chains of authority	chain of authority includes two subchains, each based on job level	Chain Of Authority
<input type="checkbox"/> final approver only	chains of authority containing only the final job-level approver	Chain Of Authority
<input type="checkbox"/> final authority	grant final authority to an approver	List Modification

然后点击“继续”按钮，直至完成。

Create Approval Groups

1. 点击“Approver Groups”，然后点击“Create”按钮。

ORACLE Approvals Management

Transaction Type: Purchase Requisition Approval

Attributes | Conditions | Action Types | **Approver Groups**

Approver Groups

To reinstate changed configuration details to original values click Revert.

Name	Description	Type	Order Number
No results found.			

2. 创建静态的审批组

Name: Jarwang Approver Group

Description: Jarwang Approver Group

Order Number: 10

Voting Method: Serial

Usage Type: Static

Query

Dynamic Approver Group requires a SQL.

Group Members

Enter members for the static approver group.

Approver Type	Approver	Order Number
No results found		
<input type="button" value="Add Another Row"/>		

点击“Add Another Row”按钮。

Group Members

Enter members for the static approver group.

Approver Type	Approver	Order Number
FND Users	JARWANG2	1
FND Users	JARWANG3	1

[Add Another Row](#)

注：确保上述用户为工作流的用户，即orig_system返为“PER”。

```
SELECT r.NAME, r.display_name, r.orig_system, r.orig_system_id
FROM wf_roles r
WHERE r.NAME in ('JARWANG','JARWANG2','JARWANG3');
```

如果不是请在定义登陆用户时，关联到HR员工。

3. 然后点击“Apply”，完成审批组的创建。

Create Approvals Rule

1. 创建审批规则

2. 输入审批规则名称。审批规则选择List Creation。

3. 添加条件，点击“Add Conditon”按钮。

ORACLE Approvals Management

Transaction Type: Purchase Requisition Approval

Return to Dashboard | Home | Logout | Preferences | Help

Enter Rule Details | Add Conditions | Add Actions | Review

Create New Rule: Add Conditions

Conditions

Add Condition

Condition	Item Class	Condition Type
No results found.		

Rules | Test Workbench | Setup | Return to Dashboard | Home | Logout | Preferences | Help

勾选前面创建的Conditions

ORACLE Approvals Management

Transaction Type: Purchase Requisition Approval

Return to Dashboard | Home | Logout | Preferences | Help

Enter Rule Details | Add Conditions | Add Actions | Review

Add Conditions

Search

Item Class: All
Condition Type: All
Attribute:
Go Clear

Create

Select All | Select None

Select Conditions

Condition	Item Class	Condition Type	Update
<input checked="" type="checkbox"/> TOTAL AMOUNT-JARWANG is greater than 0 and less than or equal to 500,RMB	Header	Ordinary	
<input checked="" type="checkbox"/> TOTAL AMOUNT-JARWANG is greater than 500,RMB	Header	Ordinary	

Cancel Continue

点击“Next”按钮。

ORACLE Approvals Management

Transaction Type: Purchase Requisition Approval

Return to Dashboard | Home | Logout | Preferences | Help

Enter Rule Details | Add Conditions | Add Actions | Review

Create New Rule: Add Conditions

Conditions

Add Condition

Condition	Item Class	Condition Type	Remove
TOTAL AMOUNT-JARWANG is greater than 0 and less than or equal to 500,RMB	Header	Ordinary	
TOTAL AMOUNT-JARWANG is greater than 500,RMB	Header	Ordinary	

Cancel Back Step 2 of 4 Next

4. 选择前面创建的Action

ORACLE Approvals Management

Transaction Type: Purchase Requisition Approval

Return to Dashboard | Home | Logout | Preferences | Help

Enter Rule Details | Add Conditions | Add Actions | Review

Create New Rule: Add Actions

Add Action

Action Type: approval-group chain of authority

Action: Require approval from JarWang Approver Group

Cancel Back

然后点击“Finish”。完成审批规则的创建。

Requisitions

Requisitions Creation

创建PO申请单

操作路径: PO=>Requisitions=>Requisitions

Number	101300000002	Type	Purchase Rec	Preparer	JARWANG, TEST
Description		Status	Incomplete	Total	RMB 45.00

Lines	Source Details	Details	Currency					
Num	Type	Item	Rev	Category	Description	UOM	Q	[]
1	Goods	1501010005		15.01.01			套	3

Destination Type	Expense	Source	Supplier
Requestor	JARWANG, TEST	Supplier	
Organization	库存主组织	Site	
Location		Contact	
Subinventory		Phone	

Outside Services	Catalog...	Distributions	Approve...
------------------	------------	---------------	------------

然后点击“Approve”按钮。

Approval Details		Additional Options	
------------------	--	--------------------	--

Encumbrance			
<input type="checkbox"/> Reserve	<input type="checkbox"/> Unreserve	Unreserve Date	
<input type="checkbox"/> Use GL Override	<input type="checkbox"/> Use Document GL Date to Unreserve	Accounting Date	

Approval		Forward From	
<input checked="" type="checkbox"/> Submit for Approval		Approval Path	
<input type="checkbox"/> Forward		Forward To	

Note	
Change	
Summary	

Transmission Methods			
<input type="checkbox"/> Print		<input type="radio"/> XML	
<input type="checkbox"/> Fax	FAX Number	<input type="radio"/> EDI	
<input type="checkbox"/> E-Mail	E-Mail Address		

然后点击“OK”按钮。

AP Invoice Approval Process Using AME

AP发票审批使用AME。

Requisitions AME Profile

Setup AME Profile

设置AP模块的AME配置文件

操作路径: **System administrator=>Profile=>System**

Profile Option Name	Site	Application
AME: Append to List option on		Payables
AME: Installation Level	2	
AME: Installed	No	Yes

AP Setup

设置AP发票的审批 workflow 选项

操作路径: **AP=>Setup=>Options=>Payables**

Payables Options (东采DU)

Accounting Methods | Transfer to GL | Payment Accounting | Currency | Supplier | Invoice | Matching

Main

- ☒ Use Invoice Approval Workflow
- ☒ Allow Force Approval
- ☒ Require Validation Before Approval
- ☒ Allow Adjustments to Paid Invoices
- ☒ Recalculate Scheduled Payment
- ☐ Automatically Create Freight Distribution
- Freight Account:

☒ Confirm Date as Invoice Number

☒ Allow Online Validation

☐ Allow Document Category Override

GL Date Basis

- ☒ Invoice Date
- ☐ System Date
- ☐ Goods Received / Invoice Date (I)
- ☐ Goods Received / System Date

Prepayment

Payment Terms:

Settlement Days:

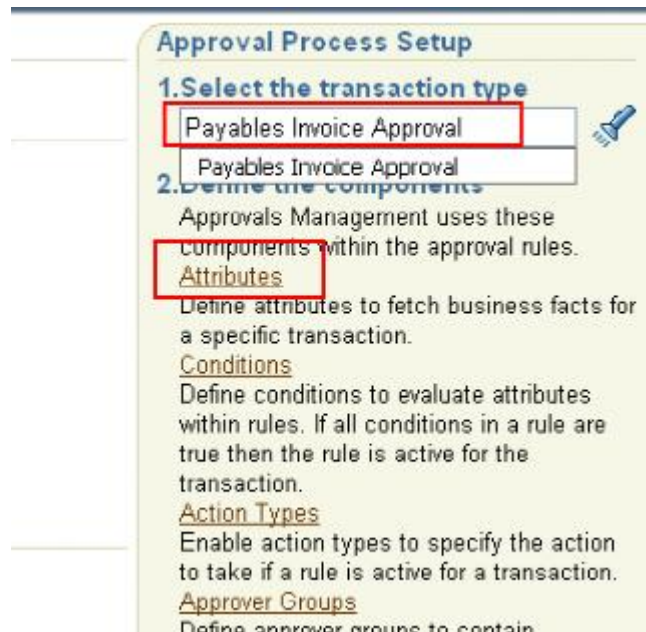
☐ Build Prepayment Accounts when Matching

Define AP Invoice Scenarios

Create Attribute

操作路径: **Approvals Management Business Analyst=>Business Analyst Dashboard**

1. 输入“**Payables Invoice Approval**”，然后点击“**Attribute**”链接。



2. 创建一个新的**Attribute**。点击“**Create**”按钮。



3. 定义**Attribute**的值。本例以**AP**发票的金额为例

set that contains business-specific data for Number, String, and Currency data types.

Name	AP_INVOICE_AMOUNT
Item Class	Header
Description	AP INVOICE AMOUNT
Data Type	Number
Approver Type	
Value Set	
Usage Type	Dynamic
Value	<pre>select fnd_number.number_to_canonical(AI.INVOICE_AMOUNT) from AP.AP_INVOICES_ALL AI where AI.INVOICE_ID = :transactionId</pre>

Enter SQL query for dynamic attributes.

Validate

SQL语句:

```
select fnd_number.number_to_canonical(AI.INVOICE_AMOUNT)
from AP.AP_INVOICES_ALL AI
where AI.INVOICE_ID = :transactionId
```

4. 点击 “Apply”，完成创建。

Create Conditions

1. 创建条件，点击 “Conditions” 按钮。

ORACLE Approvals Management

Transaction Type: Payables Invoice Approval

Attributes | **Conditions** | Action Types | Approver Groups

Confirmation

Attribute AP_INVOICE_AMOUNT has been created successfully.

Attributes

This page enables you to view attributes present in your transaction type, create new, and reuse existing at a person's salary.

Search

Attribute Category	All
Item Class	All

2. 点击 “Create” 按钮。

Create New Condition
 ■ Indicates required field

Condition Type: Ordinary
 * Attribute: AP_INVOICE_AMOUNT

Expression
 AP_INVOICE_AMOUNT is greater than or equal to 100

Create Action

- 1.创建Action Type, 点击“Use Existing Action Type”按钮。

ORACLE® Approvals Management
 Transaction Type: Payables Invoice Approval

Attributes | Conditions | **Action Types** | Approver Groups

Action Types
 To reinstate changed configuration details to original values click Revert.

Search
 Rule Type: All Go

Use Existing Action Type

Select Name	Description	Rule Type
No data exists.		

- 2.使用“approval-group chain of authority”

SETUP: ACTION TYPES >

Use Existing Action Type: Select Action Types
 Select one or more action types and click Continue to use them in the current transaction type.

Search
 Rule Type: All Go

■ Indicates already available in Payables Invoice Approval

Create

Select All | Select None

Select Name	Description
<input type="checkbox"/> absolute job level	chains of authority based on absolute job level
<input checked="" type="checkbox"/> approval-group chain of authority	chain of authority includes an approval group
<input type="checkbox"/> dual chains of authority	chain of authority includes two subchains, each based on job level
<input type="checkbox"/> final approver only	chains of authority containing only the final job-level approver
<input type="checkbox"/> final authority	grant final authority to an approver

Create Approval Groups

- 1.点击“Approver Groups”, 然后点击“Create”按钮。

ORACLE® Approvals Management

Transaction Type: Payables Invoice Approval

Attributes | Conditions | Action Types | **Approver Groups**

Approver Groups

To reinstate changed configuration details to original values click Revert.

Create Use Existing Approver Group

Name	Description	Type
No results found.		

2.创建审批组人员信息

• Name: AP_APPROVAL_GRP

• Description: AP Approval Group

• Order Number: 5

Voting Method: Serial

Usage Type: Static

Query

Dynamic Approver Group requires a SQL.

Validate

Group Members

Enter members for the static approver group.

Approver Type	Approver	Order Number
HR People	JARWANG2, TEST2	1
HR People	JARWANG3, TEST3	2

Add Another Row

注：确保上述用户为工作流的用户，即`orig_system`返为“**PER**”。

```
SELECT r.NAME, r.display_name, r.orig_system, r.orig_system_id
FROM wf_roles r
WHERE r.NAME in ('JARWANG','JARWANG2','JARWANG3');
```

如果不是请在定义登陆用户时，关联到**HR**员工。

3. 然后点击“**Apply**”，完成审批组的创建。

Create Approvals Rule

1.创建审批规则

ORACLE® Approvals Management

Transaction Type: Purchase Request Approval

Rules

To use a rule defined in another transaction type or an inactive rule in this transaction type, click Use Existing Rule.

Show Search Options

Create Use Existing Rule

Name	Rule Type	Item Class	Start Date	End Date	Category	Update	Remove
No results found.							

2. 输入审批规则名称。审批规则选择List Creation。

Enter Rule Details Add Conditions Add Actions Review

Create New Rule: Enter Rule Details

• Indicates required field

• Name AP Invoice Approval Rule

• Rule Type List Creation

Item Class Header

• Start Date 2010-11-21
(example: 2010-11-21)

• End Date 4712-12-31

3. 选择条件。

Enter Rule Details **Add Conditions** Add Actions Review

Add Conditions

Search

Item Class All

Condition Type All

Attribute

Go Clear

Create

Select All | Select None

Select Condition

<input checked="" type="checkbox"/>	AP_INVOICE_AMOUNT is greater than or equal to 100
<input type="checkbox"/>	SUPPLIER_INVOICE_AMOUNT is greater than or equal to 0 and less than or equal to 1000,USD
<input type="checkbox"/>	SUPPLIER_INVOICE_DISTRIBUTION_COST_CENTER in (683)
<input type="checkbox"/>	SUPPLIER_INVOICE_TYPE_LOOKUP_CODE in (STANDARD)

4. 选择活动类型

Enter Rule Details Add Conditions **Add Actions** Review

Create New Rule: Add Actions

Add Action

Action Type	Action
approval group chain of authority	Require approval from AP_APPROVAL_GRP

3. 然后点击“Apply”，完成审批规则的创建。

AP Invoice

Invoice Creation

1. 创建AP发票批。

操作路径: AP=>Invoices=>Entry=>Invoice Batch

Batch Name	Date	Control Count	Control Amount	[Act
AP INVOICE BATH TEST 01	2010-11-21		700		

[Create Accounting](#)
[Validate 1](#)
[Invoices](#)

2.创建发票。点击“**Invoice**”按钮，输入发票信息。

Batch Control Total: **700**
 Actual Total: **700**

Type	Supplier	Supplier Num	Site	Invoice Date	Invoice Num	Invoice Cury	Invoice Amount	Withheld Amount	Prepaid Amc
Standard	RNE	18447	4	2010-11-21	TEST001	RMB	700		

Amount Paid

RNE **0.00**

Invoice Status

Status: **Never Validated**

Accounted: **No**

Approval Status

Approval: **Required**

Pending Approver:

Description:

Summary

Holds:

Distribution Total: **0.00**

点击“**Distributions**”按钮。输入发票科目信息。

[illegible]

3. 保存上述信息。

AP Invoice Using AME TEST

使用**AME**测试工作台，测试**AME**审批规则是否生效。

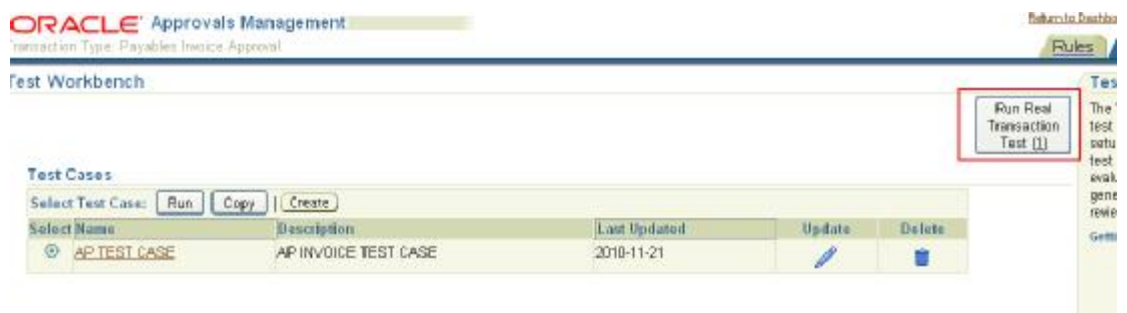
1. 创建**AME**测试用例，点击“Create”按钮。



2. 输入**AME**测试用例信息，然后点击“Save for Later(1)”按钮。



3. 点击“Run Real Transaction Test(1)”按钮。



4. 输入**AP Invoice**发票的**INVOICE_ID**

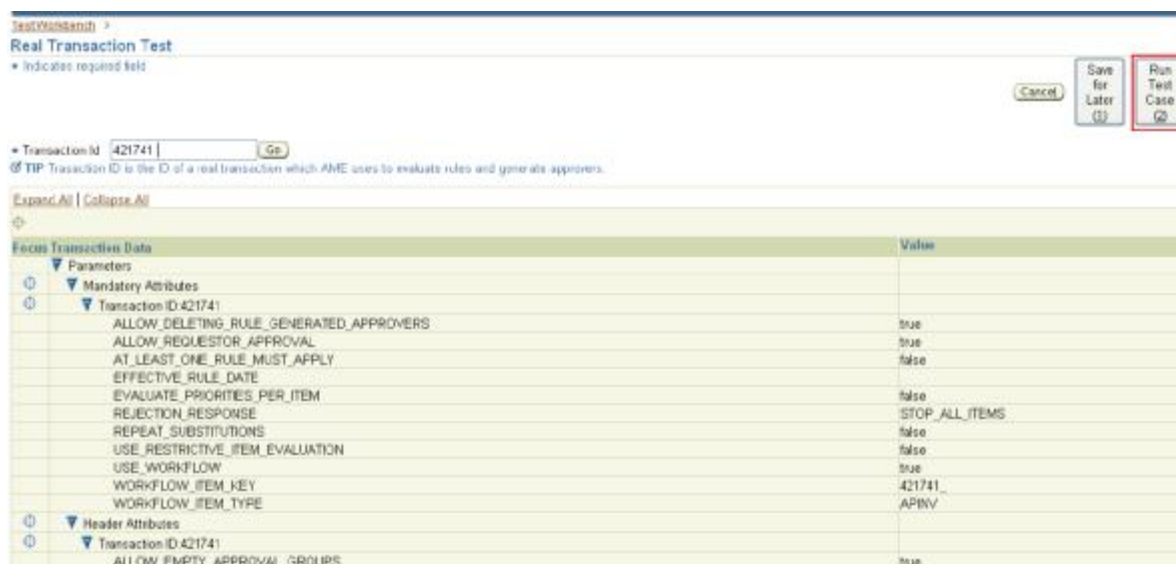
查询前面创建发票的**INVOICE_ID**

```
select * from ap.ap_invoices_all ai where ai.invoice_num='TEST001'
```

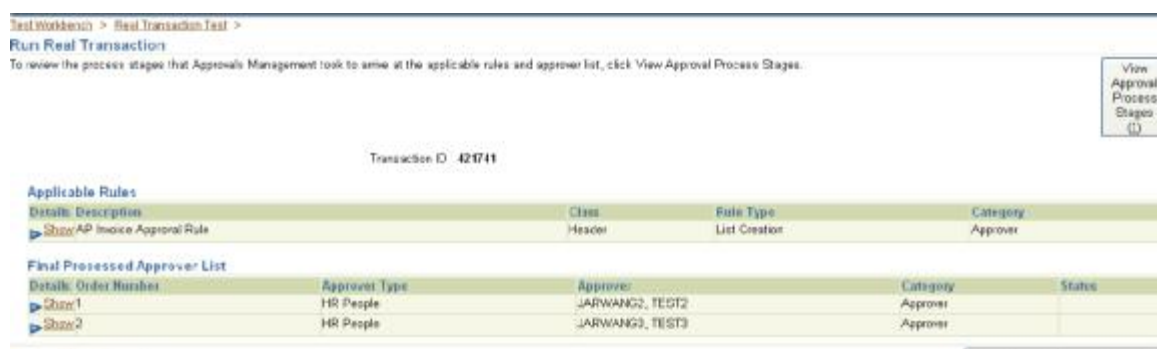
5. 输入**Transaction Id**，点击“GO”按钮。



6. 点击 “Run Test Case (2)”



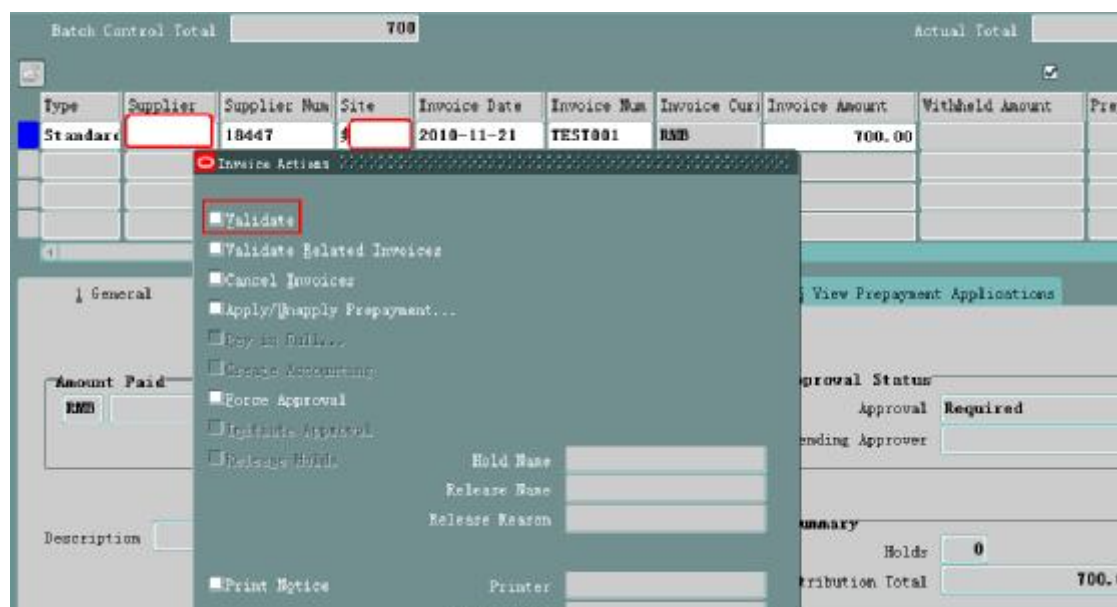
7. 这样就可以查看到审批人列表。说明**AME**规则已经对**AP**发票审批 workflow 生效了。



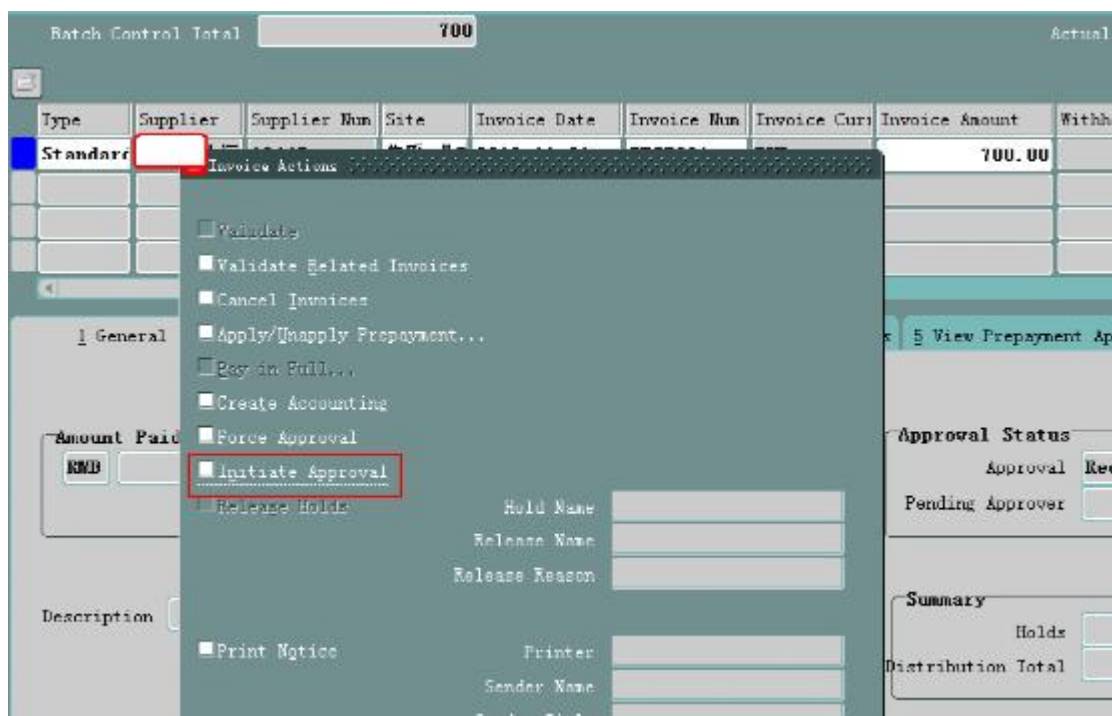
Startup Invoice Approval Process

启动**AP**发票审核 workflow。

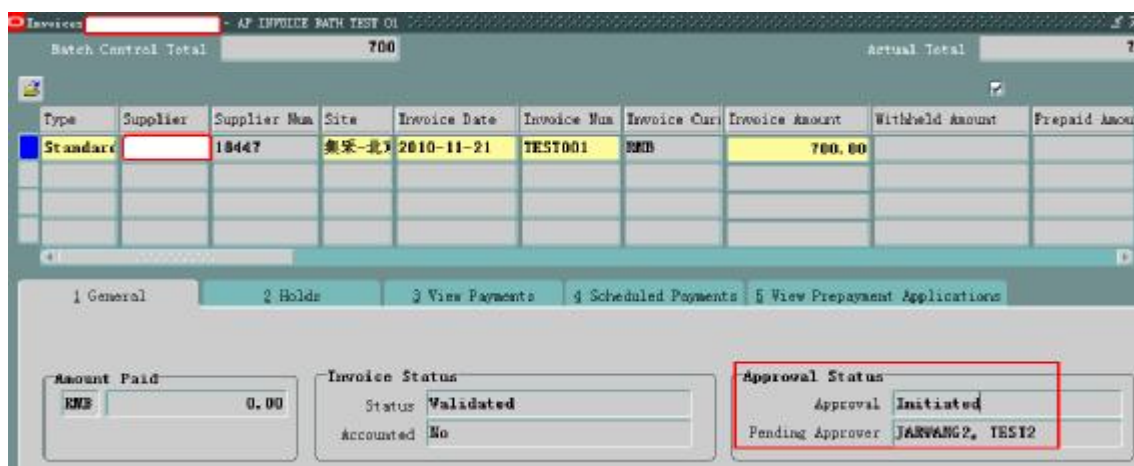
1. 验证**AP**发票。点击 “Actions” 按钮。勾选 “Validate” 选项。



2. 然后再次点击“**Action**”按钮。勾选“**Initate Approval**”选项。



3. 此时查看AP发票的状态为“Initiated”



Approve AP Invoice

1. 切换到JARWANG2用户，审核AP发票。

操作路径: **Workflow Administrator=>Home**

ORACLE Administrator Workflow

Home Logout Preferences Help

Send >

Invoice TEST001 for [redacted] requires your approval.

Approve Reject Reassign Request Information

To: JARWANG2.TEST2
Sent: 2010-11-21 16:15:35
Due: 2010-11-22 16:15:35
History
Attachments

Accounts Payable has received an invoice, but the invoice cannot be paid until you provide your approval.

Supplier: [redacted]
Supplier Site: 供应商B
Invoice Date: 2010-11-21
Invoice Number: TEST001
Invoice Currency: RMB
Invoice Amount: 700.00
Description:
PO Number:
Requester Name:

Previous Approver's Comments:

References

[View Invoice](#)

Response

Approver Comments: This is a test invoice using AME

[Return to Workflow](#)

☐ Display next notification after my response

Approve Reject Reassign Request Information

点击“Approve”按钮。同理，登陆JARWANG3再进行审批。OK，使用AME完成AP发票审批。

iExpense Using AME

Requisitions AME Profile

Setup AME Profile

设置iExpense模块的AME配置文件

操作路径: **System administrator=>Profile=>System**

Profile Option Name	Site	Application
AME Deviation Data Purge Date(dd/m)		Time and Labor
AME: Append to List option on Appro		
AME:Installation Level	2	
AME:Installed	No	Yes

Define Responsibilities

定义iExpense职责

Responsibility Name: **MOT NEW Internet Expenses**

Application: **Time and Labor**

Responsibility Key: **MOT_NEW_OIE_EXPENSE_REPORTS**

Description:

Effective Dates: From **23 MAY 2012** To

Available From:

- ☒ Oracle Applications
- ☐ Oracle Self Service Web Applications
- ☐ Oracle Mobile Applications

Data Group:

Name: **Standard**

Application: **Time and Labor**

Menu: **Expenses Main Menu (NEW)**

Web Host Name:

Web Agent Name:

Request Group:

Name:

Application:

Menu Exclusions: Excluded Items: Securing Attributes:

Type	Name	Description
Function		

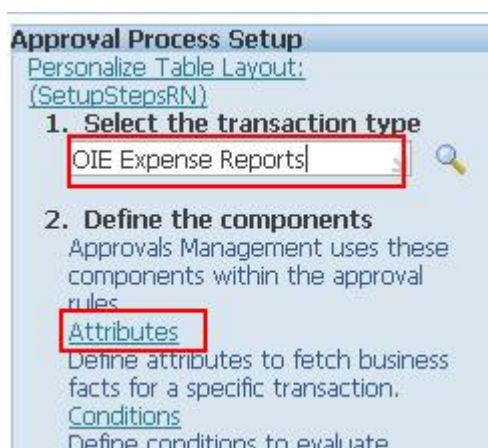
注意: 职责的**application**选择不选择**Payable**, 而是选择了一个当前环境中不用的一个**application**。主要是为了避免与**AP**的发票**Workflow**冲突。

Define iExpense Scenarios

Create Attribute

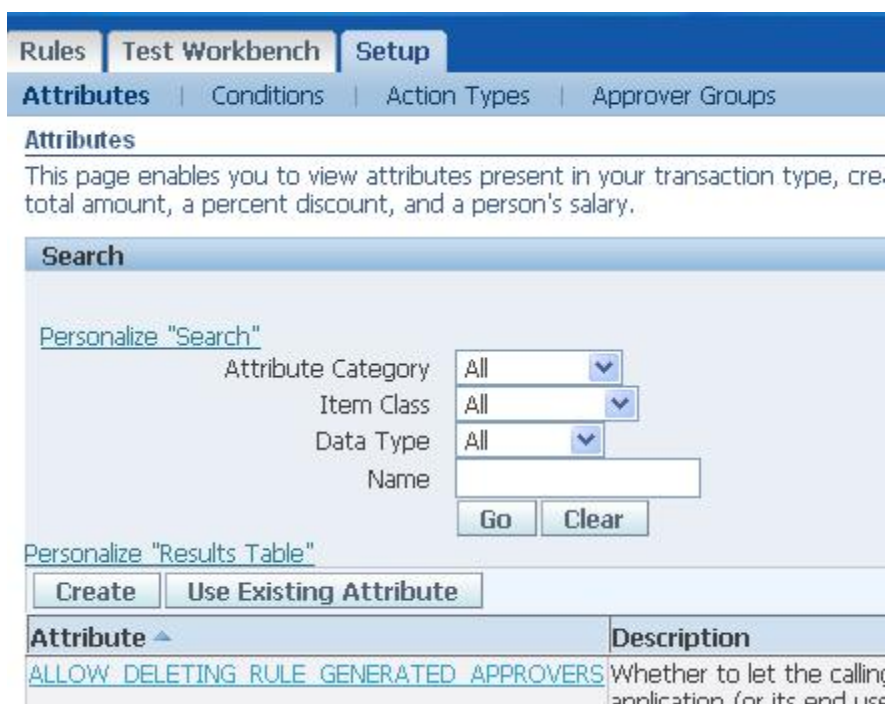
操作路径: **Approvals Management Business Analyst=>Business Analyst Dashboard**

1. 输入“**Payables Invoice Approval**”，然后点击“**Attribute**”链接。



Approval Process Setup
 Personalize Table Layout:
 (SetupStepsRN)
 1. Select the transaction type
 OIE Expense Reports
 2. Define the components
 Approvals Management uses these components within the approval rules
 Attributes
 Define attributes to fetch business facts for a specific transaction.
 Conditions
 Define conditions to evaluate

2. 创建一个新的**Attribute**。点击“**Create**”按钮。



Rules | **Test Workbench** | **Setup**
Attributes | Conditions | Action Types | Approver Groups
Attributes
 This page enables you to view attributes present in your transaction type, create total amount, a percent discount, and a person's salary.
Search
 Personalize "Search"
 Attribute Category: All
 Item Class: All
 Data Type: All
 Name:
 Go Clear
 Personalize "Results Table"
 Create Use Existing Attribute

Attribute	Description
ALLOW DELETING RULE GENERATED APPROVERS	Whether to let the calling application for its end use

3. 定义**Attribute**的值。本例以**EXPENSE REPORT**的金额为例

a type and a value set that contains business-specific data for Number, String,

[Cancel](#)

* Name	OIE_REPORT_AMOUNT
Item Class	Header
* Description	OIE_REPORT_AMOUNT
Data Type	Number
Approver Type	
Value Set	
Usage Type	Dynamic
* Value	<pre>select fnd_number.number_to_canonical(aerh.total) from AP.ap_expense_report_headers_all aerh where aerh.report_header_id = :transactionId</pre>

Enter SQL query for dynamic attributes.

[Validate](#)

SQL语句:

```
select fnd_number.number_to_canonical(AI.INVOICE_AMOUNT)
from AP.AP_INVOICES_ALL AI
where AI.INVOICE_ID = :transactionId
```

4. 点击 **“Apply”**，完成创建。

Create Conditions

1. 创建条件，点击 **“Conditions”** 按钮。

Rules | **Test Workbench** | Setup

Attributes | **Conditions** | Action Types | Approver Groups

Conditions

Regular | List Modifiers

Personalize Stack Layout: (ConditionQueryRN)

Search

Personalize "Search"

Item Class	All
Condition Type	All
Attribute	

[Go](#) [Clear](#)

Personalize "Results Table"

[Create](#)

Condition ▲

2. 点击“Create”按钮。

Rules | Test Workbench | Setup

Attributes | Conditions | Action Types | Approver Groups

Setup: Conditions >

Create New Condition

* Indicates required field

Condition Type: Ordinary

* Attribute: OIE_REPORT_AMOUNT

Expression: OIE_REPORT_AMOUNT is greater than

Create Action

1. 创建Action Type, 点击“Use Existing Action Type”按钮。

Rules | Test Workbench | Setup

Attributes | Conditions | Action Types | Approver Groups

Action Types

To reinstate changed configuration details to original values click Revert.

Search

Personalize "Search"

Rule Type: Chain Of Authority

Go

Personalize "Results Table"

Use Existing Action Type

Select Name	Description	Rule Type	
No data exists.			

2. 使用“approval-group chain of authority”

Search

Personalize "Search"

Rule Type: All

Go

Indicates already available in OIE Expense Reports.

Personalize "Action Types"

Create

Select All | Select None

Select	Name	Description
<input type="checkbox"/>	absolute job level	Chains of authority based on absolute job level
<input checked="" type="checkbox"/>	approval-group chain of authority	Chain of authority includes an approval group
<input type="checkbox"/>	dual chains of authority	Chain of authority includes two subchains, each based on job level
<input type="checkbox"/>	final approver only	Chains of authority containing only the final job-level approver
<input type="checkbox"/>	final authority	Grant final authority to an approver

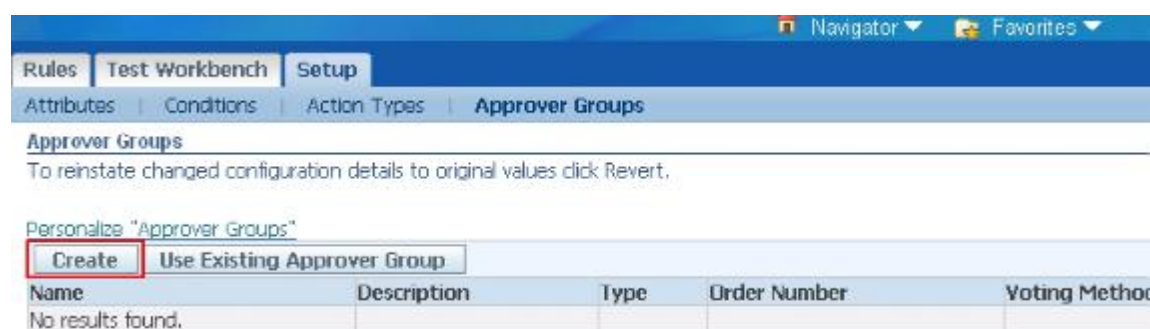
点击Finish按钮



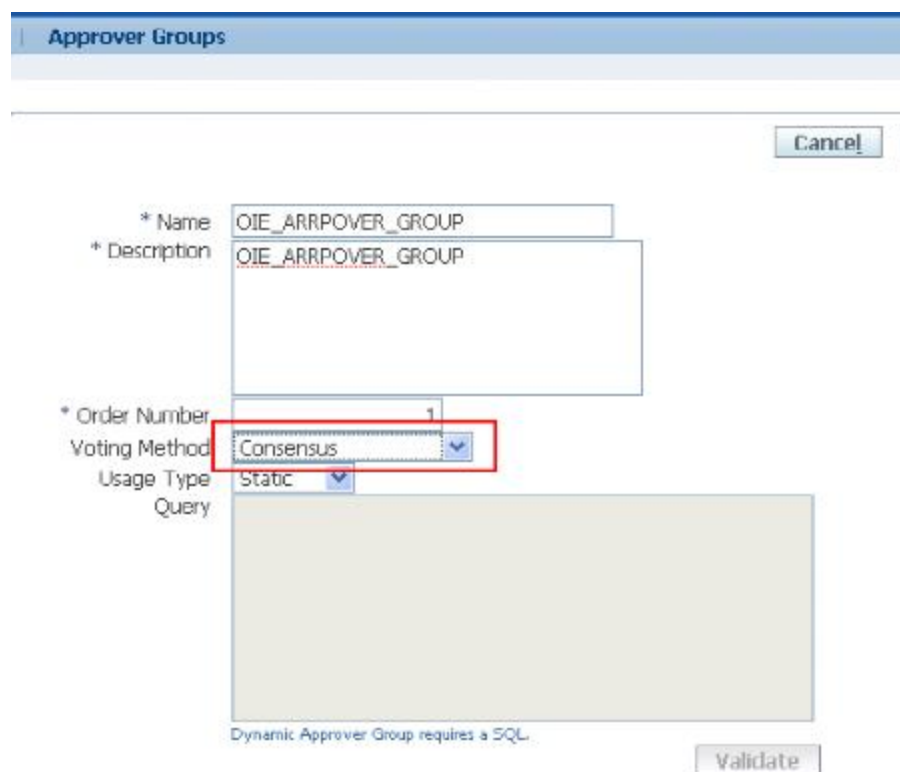
注：本例测试Parallel Consensus，即多个主管同时收到**Notification**，并且要这些主管同意，才能通过。

Create Approval Groups

1. 点击“Approver Groups”，然后点击“Create”按钮。



2. 创建审批组人员信息



Dynamic Approver Group requires a SQL.

Validate

Group Members

Personalize "Group Members":
Enter members for the static approver group.

Personalize "Approver Group Members":

Approver Type	Approver	Order Number	Delete
HR People	Buyer, OPN	1	
HR People	Dr, OPN	2	

Add Another Row

Cancel Create Another

注：本例测试表决方法**CONSENSUS**，即多个主管同时收到**Notification**，并且要这些主管同意，才能通过。

3. 然后点击“**Apply**”，完成审批组的创建。

Create Approvals Rule

1. 创建审批规则

Rules Test Workbench Setup

Rules

To use a rule defined in another transaction type or an inactive rule in this transaction type, click Use Existing Rule.

Show Search Options

Personalize "Rules"

Create Use Existing Rule

Name	Rule Type	Item Class	Start Date	End Date	Category	Update
No results found.						

TIP Delete enables you to delete a rule usage that is not predefined.

TIP Duplicate enables you to create another usage for an existing rule in the current transaction type.

2. 输入审批规则名称。审批规则选择**List Creation**。

Rules Test Workbench Setup

Enter Rule Details

Create New Rule: Enter Rule Details

* Indicates required field

* Name: OIE Approval Rule

* Rule Type: List Creation

Item Class: Header

Category: Approver

* Start Date: 31-May-2012

(example: 31-May-2012)

* End Date: 31-Dec-4712

3. 选择条件。

Enter Rule Details Add Conditions Add Actions Review

Add Conditions

Personalize Stack Layout

Search

Personalize "Search"

Item Class: All
Condition Type: All
Attribute:

Go Clear

Personalize "Conditions"

Create

Select All | Select None

Select	Condition	Item Class	Condition Type	Update
<input checked="" type="checkbox"/>	OIE_REPORT_AMOUNT is greater than 0	Header	Ordinary	

Cancel Continue

4.选择活动类型

Enter Rule Details Add Conditions Add Actions Review

Create New Rule: Add Actions

Personalize "Actions"

Add Action

Action Type	Action	Remove
Approval group chain of authority	Require approval from OIE_APPROVER_GROUP	

Cancel Back Step 3 of 4 Next

5.然后点击“Apply”，完成审批规则的创建。

iExpense

Create an iExpense Report

1.创建iExpense费用报表

Expenses Home | Expense Reports | Access Authorizations | Payments Search

General Information Cash and Other Expenses Review

Create Expense Report: General Information

* Indicates required field

Save Cancel Step 1 of 3 Next

Personalize "General Information Page"

Name: ONG, BOCK POH (12031782)
* Department: 9D098
Reimbursement Currency: USD - US Dollar
Expense Template: KR_TEST

* Purpose: Consensus test001
Approver:

Save Cancel Step 1 of 3 Next

Expenses

Expenses Home | **Expense Reports** | Access Authorizations | Payments Search

General Information | **Cash and Other Expenses** | Review

Create Expense Report: Cash and Other Expenses

Save Cancel Back Step 2 of 3 Next

Personalize "Cash And Other Expenses Page"
Personalize "Receipt-Based Expenses"

Receipt-Based Expenses

Personalize "Receipt-Based Expenses"

✓TIP Enter all business expenses. Enter one expense per line. Click Details to enter information specific to an expense, such as the Daily Rate. If your receipt includes more than one expense type, click Itemize.
✓TIP Date Example: 01-JUN-2012.

Personalize "Use this table to enter receipt-ba..."

Select Expense Lines: Duplicate Remove | Show Receipt Currency

Select All | Select None

Select	Line	Date	Receipt Amount	Expense Type	Justification	Reimbursable Amount (USD)	Detail
<input type="checkbox"/>	1	01-Jun-2012	500	KR_LINE1	test01		
<input type="checkbox"/>	2	01-Jun-2012	20.55	KR_LINE2	test02		

提交**Expense Report**后, **Current Approver**显示为**Multiple**。

Expenses

Expenses Home | Expense Reports | Access Authorizations | Payments Search

Expenses Home

Create Expense Report Import Spreadsheet Export Spreadsheet

Personalize "OIE Home Page Container"

Track Submitted Expense Reports

Personalize "Track Submitted Expense Reports"
Personalize Table Layout: (TrackSubReportsHelp)

The following expense reports are either outstanding or have been paid in the last 30 days.

Personalize "Track Submitted Expense Reports ta..."

Report Number	Report Submit Date	Report Status	Last Report Status Activity (Days)	Current Approver	Original Receipts Status	Imaged Receipts Status	Report Total	Purpose	Duplicate
61009	01-Jun-2012	Pending Manager Approval	0	Multiple	Not Required	Not Required	520.55 USD	Consensus test001	

Approve an iExpense Report

前面**AME**创建审批组时, 定义了两个**Supervisor**。因此两个**Supervisor**会同时收到**notification**。

A主管:

Search Results Display Preference Standard Go

Logged In As **01_OPN**

[Personalize "Worklist"](#)

Worklist

[Personalize "Notifications Worklist Function"](#) Full List

[Personalize "Notification List"](#)

From	Type	Subject	Sent	Due
ONG, BOCK POH Expenses	Expense	61009 for ONG, BOCK POH (520.55 USD)	01-Jun-2012	06-Jun-2012

✓ **TIP** [Vacation Rules](#) - Redirect or auto-respond to notifications.

✓ **TIP** [Worklist Access](#) - Specify which users can view and act upon your notifications.

B主管:

Search Results Display Preference Standard Go

Logged In As **02_OPN**

[Personalize "Worklist"](#)

Worklist

[Personalize "Notifications Worklist Function"](#) Full List

[Personalize "Notification List"](#)

From	Type	Subject	Sent	Due
ONG, BOCK POH Expenses	Expense	61009 for ONG, BOCK POH (520.55 USD)	01-Jun-2012	06-Jun-2012

✓ **TIP** [Vacation Rules](#) - Redirect or auto-respond to notifications.

✓ **TIP** [Worklist Access](#) - Specify which users can view and act upon your notifications.

并且只有当A、B两个主管都**Approve**才表示该费用报表通过了，否则有任何一方不同意，都会导致该费用报表**Reject**。

Other Notes

Oracle EBS-11i 开发笔记: <http://www.itpub.net/thread-1133804-1-1.html>

Oracle EBS-11i 表结构、API接口笔记: <http://www.itpub.net/thread-1265230-1-1.html>

Oracle EBS-11i OAF开发笔记: <http://www.itpub.net/thread-1236269-1-1.html>

Oracle EBS-11i Workflow与JBoss jBPM开发笔记: <http://www.itpub.net/thread-1245869-1-1.html>

Oracle EBS-11i OM-扩展开发: <http://www.itpub.net/thread-1154690-1-1.html>

Oracle EBS-11i WEB ADI开发笔记（抽丝拨茧篇）: <http://www.itpub.net/thread-1225495-1-1.html>

Oracle EBS-11i 多节点安装、克隆等 (32bit): <http://www.itpub.net/thread-1228782-1-1.html>

Oracle EBS AME模块学习笔记: <http://www.itpub.net/thread-1409293-1-1.html>

Oracle EBS-报表开发工具之闲碎: <http://www.itpub.net/thread-1439279-1-1.html>

Oracle EBS-11i DBA笔记: <http://www.itpub.net/thread-1256323-1-1.html>

Oracle EBS-R12 单节点安装、克隆等(64bit): <http://www.itpub.net/thread-1129128-1-1.html>

Oracle EBS-R12 学习笔记（GL、INV）: <http://www.itpub.net/thread-1247010-1-1.html>

Oracle EBS-R12 OAF开发笔记: <http://www.itpub.net/thread-1412731-1-1.html>

Oracle EBS Web Service开发笔记: <http://www.itpub.net/thread-1436990-1-1.html>

Oracle EBS Advanced Replication10g配置: <http://www.itpub.net/thread-1216295-1-1.html>

Oracle EBS DataGuard10g配置: <http://www.itpub.net/thread-1362805-1-1.html>

Oracle EBS Stream10g配置:

Oracle10g OCP学习笔记: <http://www.itpub.net/thread-1229073-1-1.html>

Oracle10g RAC安装: <http://www.itpub.net/thread-1194959-1-1.html>

Oracle11g RAC安装: <http://www.itpub.net/thread-1454363-1-1.html>

Oracle10g 基于ASM存储的异机恢复: <http://www.itpub.net/thread-1208926-1-1.html>

PL/SQL操作EXCEL: <http://www.itpub.net/thread-1101710-1-1.html>

MySQL5开发笔记: <http://www.itpub.net/thread-1158177-1-1.html>

Redhat系统管理员笔记: <http://www.itpub.net/thread-1353773-1-1.html>

RHEL5.2内核升级: <http://www.itpub.net/thread-1145199-1-1.html>

