



#### Using Approvals Management Engine (AME) for Requisitions in R12

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## **Agenda**

- What is the need?
- Non-AME requisition approvals
- Overview of AME
- Examples
- Summary





# Standard Requisition Approval Process

- Position hierarchy
- Employee Supervisor
- Direct or Hierarchical Routing
- Include and Exclude amounts for various attributes such as document totals and account ranges.





# Standard Requisition Approval Process

- There are many ways that the standard approval methods can support your organization.
- Need more? Modify workflow.
- Administrational overhead with maintaining a position hierarchy if your organization changes often.





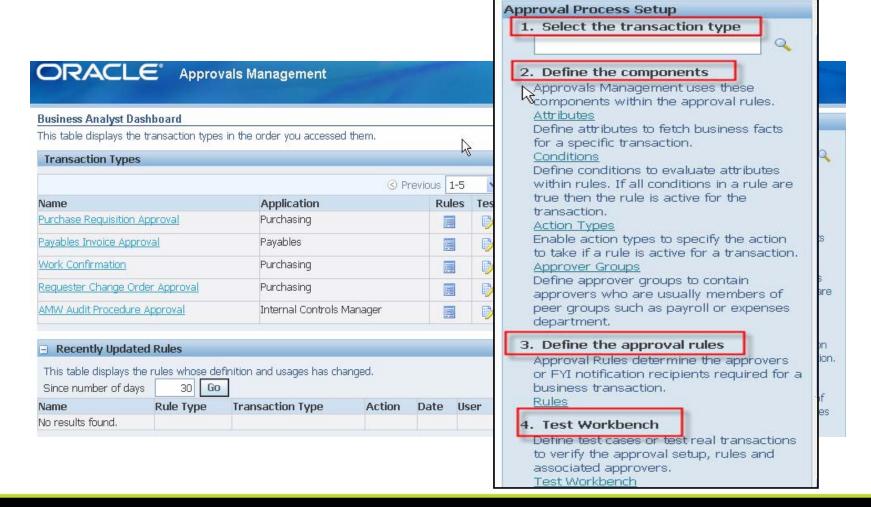
# What is the Approvals Management Engine (AME)?

- A common way for Oracle to manage approvals for it's applications.
- AME has a self-service business analyst dashboard to perform maintenance.
- Uses business specific rules to manage the approvals required for a specific type of transaction





#### **AME Business Analyst Dashboard**







#### **Approval Rules**

- Business rule that determines the approval process used by a transaction.
  - Rules are constructed by Conditions and Actions.

#### Example:

 If requisition amount > \$250,000.00 USD (condition), THEN require post-chain-of-authority approval (action) from the Legal Team (approval group).





#### **Approval Rules**

If

requisition amount > \$250,000.00 USD,

#### condition

#### **THEN**

use post-chain-of-authority approval to add the approval group of Legal team

action





## **Approval Rules**

- Transaction Types
- Attributes
- Conditions
- Action Types
- Approval Groups





#### **Transaction Type**

- Represents "Which" type of application transaction type will have a set of distinct rules applied to it.
- Types of Transaction Types:
  - Requisition Approval
  - Requisition Change Approval
  - Work Confirmation
  - Supplier Registration Approval





#### **Attributes**

- Business variables that have a single outcome for a transaction:
  - Transaction amount
  - Purchasing Category
  - Cost Center
  - Item Number
- Attributes are used in conditions to provide one piece of the rule.
- Create attributes that do not come seeded





#### **Conditions**

- Tells us what is true or false about a transaction.
- If X is true, then do Y.
- Two types of conditions
  - Ordinary
    - Evaluates dates, numbers, currencies.
  - List-Modifier
    - checks for a given approver.





## **Action Types**

 An action type is an instruction to AME to modify a transaction's approval process in the manner you specify.





#### **Available Action Types**

- Available Action Types Are:
  - Chain of Authority Uses HR supervisory or HR position hierarchies.
  - List Modification
  - Substitution
  - Pre Approval Group
  - Post Approval Group





## **Approval Groups**

- When using pre- or post- list approval group action types you will have to create an Approval group
- An approver group can either be an ordered set of one or more approvers (persons and/or user accounts) or it can be a list, which is dynamically generated at rule evaluation time.





## **Approval Groups**

- Are typically created to support non-financial approvals such as:
  - Legal Review
  - Gate Keeper for specific commodities
  - Engineering
  - Project Management
- This means in addition to the approval list that was automatically built based on financial constraints (emp/supervisor hierarchy)





#### **Example 1- Simple Business Rule**

- At a local electric transmission company all requisition transactions over \$250,000.00
   Require the approval of a legal representative
- The legal team should be notified after the initial financial approval list has reviewed and approved the requisition
- First team member to respond provides the approval





#### Example 1

If

requisition amount > \$250,000.00 USD,

#### condition

#### **THEN**

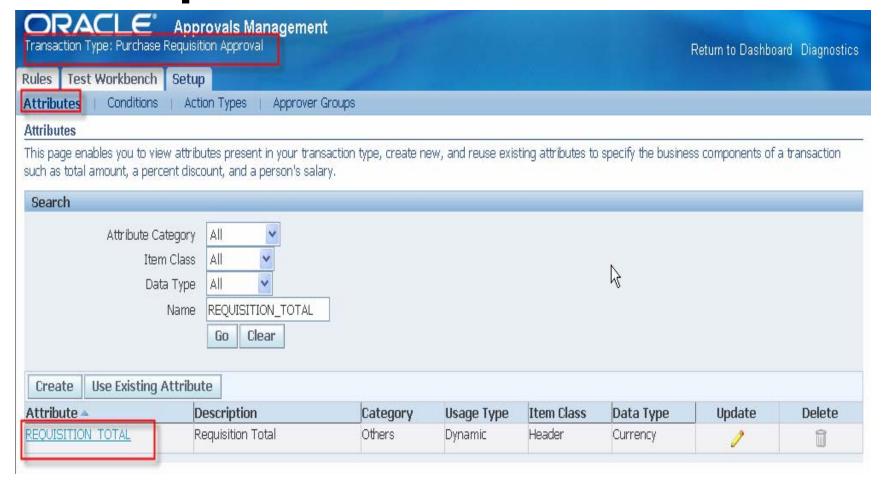
use post-chain-of-authority approval to add the approval group of Legal team

action





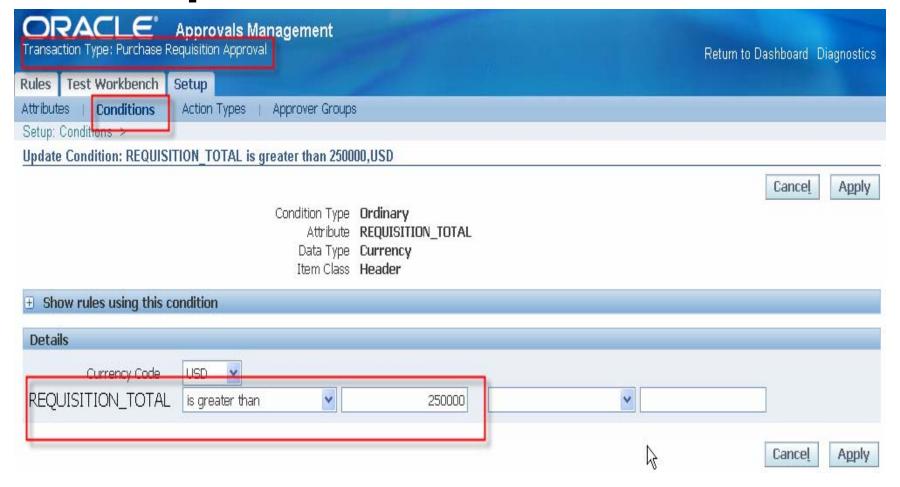
### **Example 1 - Attributes**







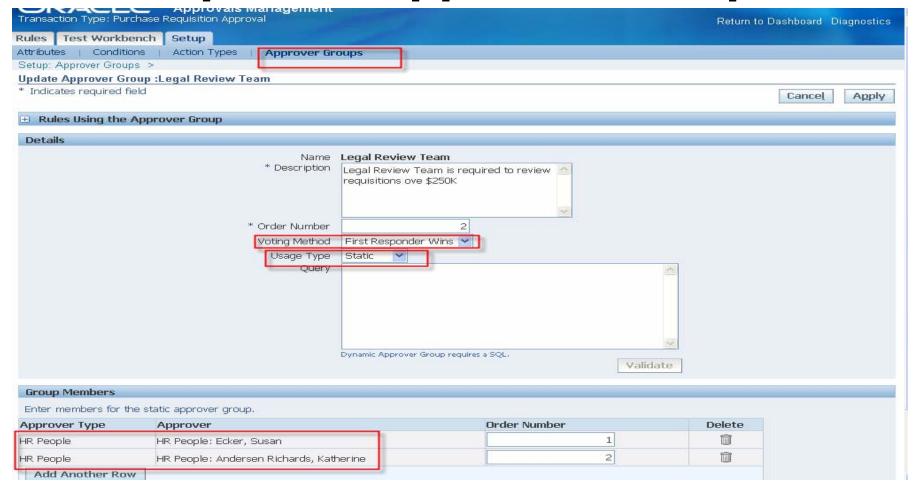
## **Example 1 - Conditions**







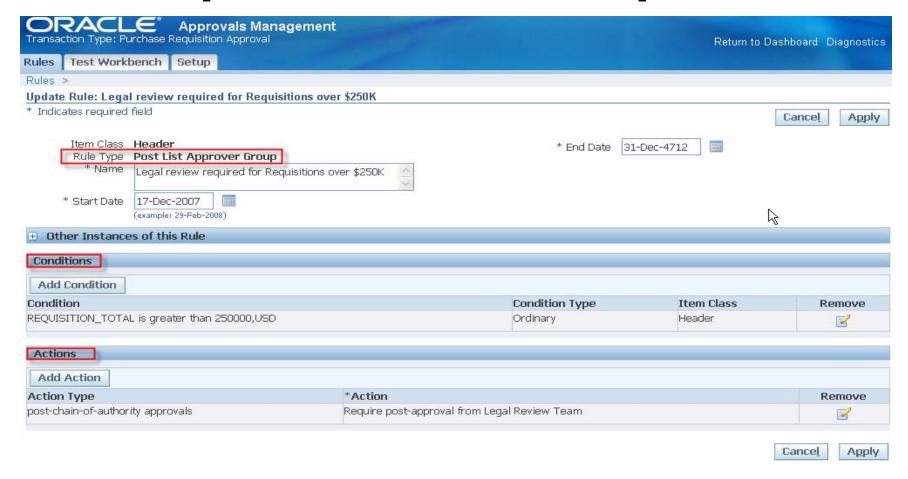
#### Example 1 - Approval Group







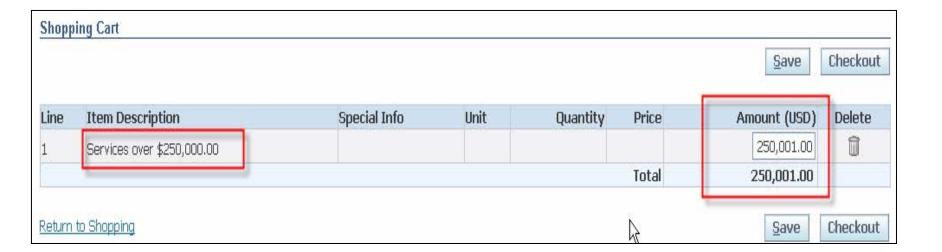
### Example 1 - Rule Set Up







## **Example 1 - Outcome**







#### **Example 1 - Outcome**







#### **Example 2 - Medium Complexity**

 If project type is Indirect, require requisition approval by Project Manager and then requester's immediate supervisor.





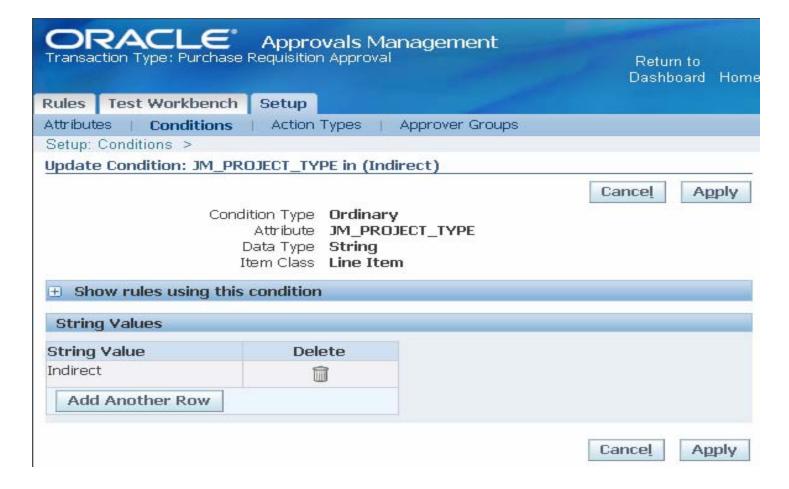
# **Example 2 - Attributes**

Transaction Type: Purcha	Approvals Management ase Requisition Approval	Return to Dashboard Home
Rules   Test Workben	Setup	
Attributes   Condition	ns   Action Types   Approver Groups	
Setup: Attributes >		
Update Attribute : JM	_PROJECT_TYPE	
* Indicates required field		Cancel Apply
Name Item Class	JM_PROJECT_TYPE Line Item	
* Description  Data Type Approver Type	JM_PROJECT_TYPE  String None	
Value Set	Q	
Usage Type	Dynamic 🔻	
* Value	select pap.project_type from pa_projects_all pap, po_req_distributions_ po_requisition_lines_all prl where prl.requisition_header_id = po_ame_setup_pvt.get_new_req_header_id(:trained prl.requisition_line_id = prd.requisition_line and pap.project_id = prd.project_id order by prd.distribution_id	ansactionId)
	Enter SQL query for dynamic attributes.	
		Validate
		Cancel Apply





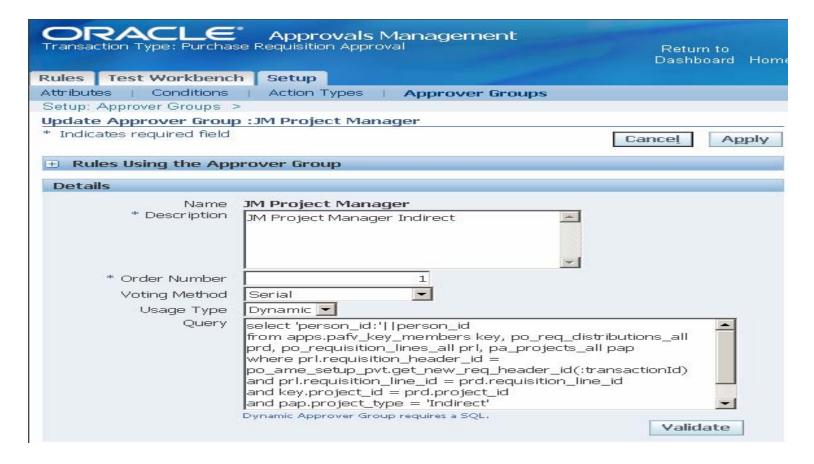
## **Example 2 - Conditions**







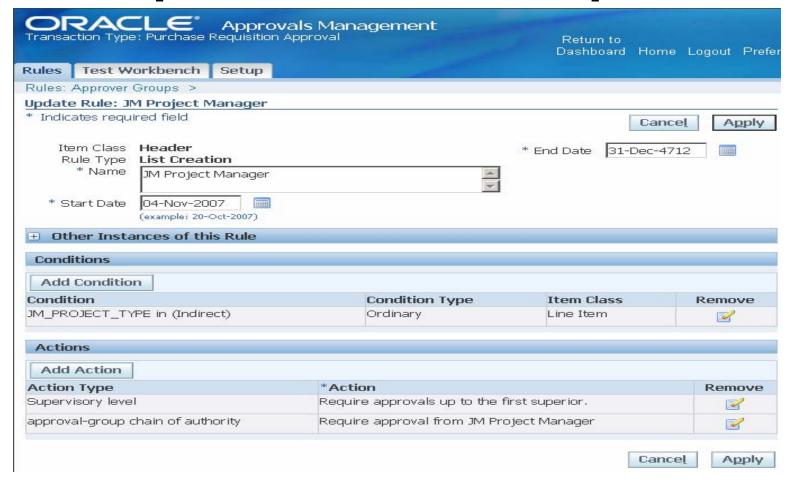
#### **Example 2 – Approver Groups**







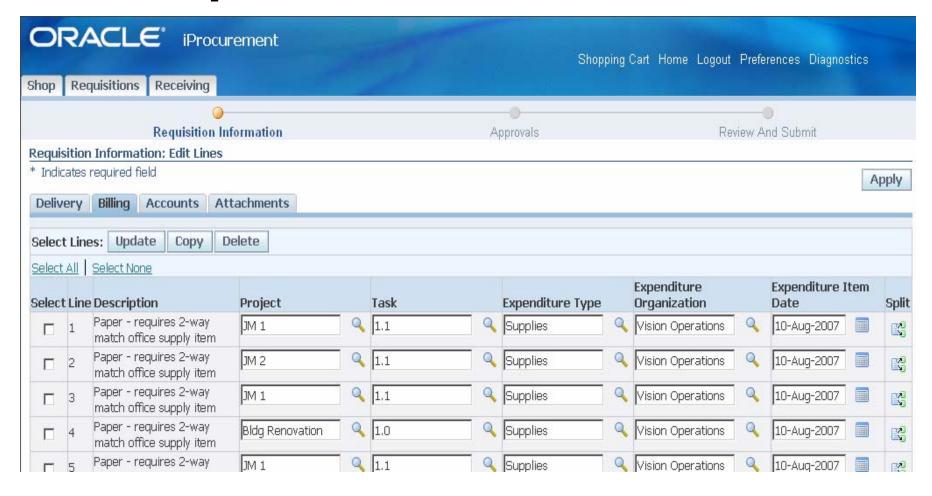
#### Example 2 - Rule Set Up







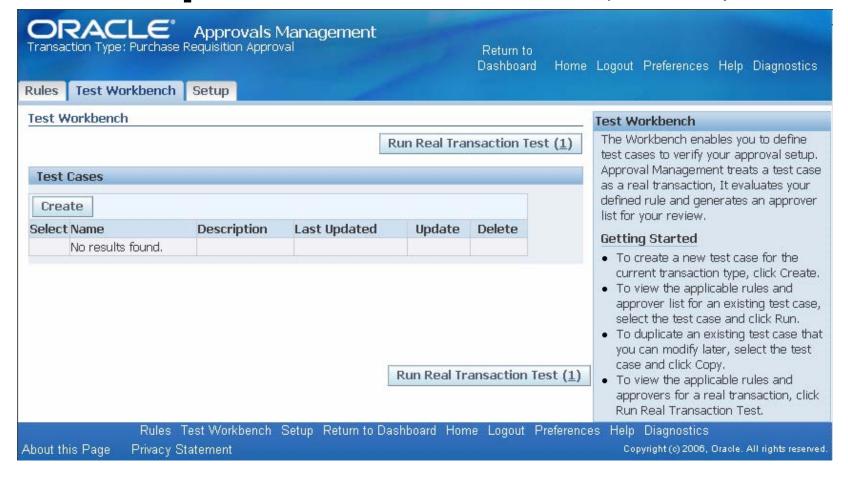
## Example 2 - Outcome (Test)







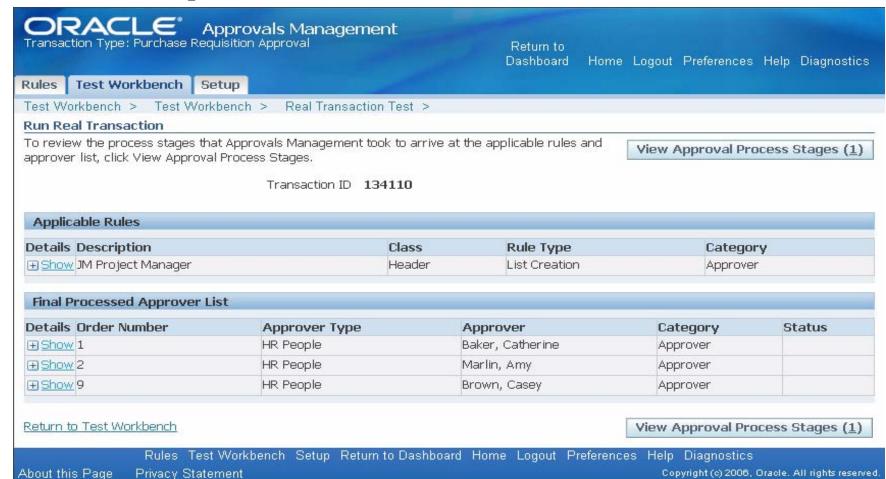
## Example 2 - Outcome (Test)







## Example 2 - Outcome (Test)







#### **Example 3 - Complex Business Rule**

- At a construction company where the project teams can be rather large, special conditions for requisition approval can exist
- Whenever a requisition is created utilizing a project type of construction, do the following:
  - Make the project manager the first approver
  - Follow the project manager's employee/supervisor hierarchy rather than the preparer's.







#### Example 3

#### If

requisition includes a project with a type of "PM" for the approval path

#### condition

#### THEN

Change the first approver in the list to the project manager of the project and follow their approval path

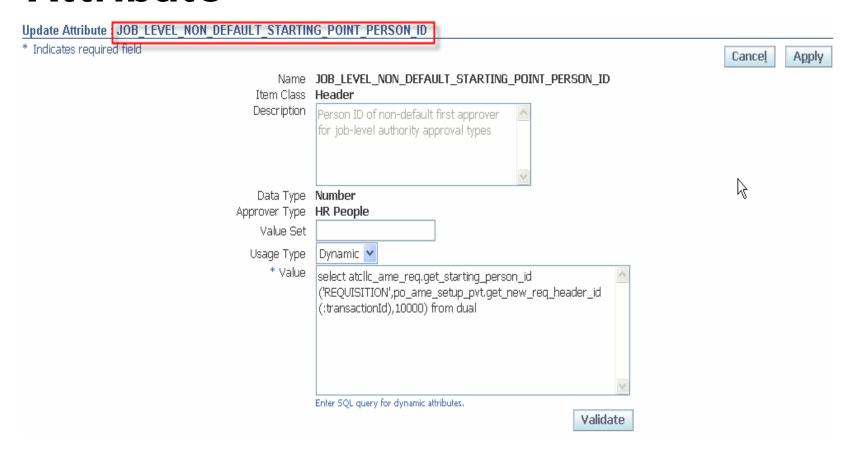
#### action







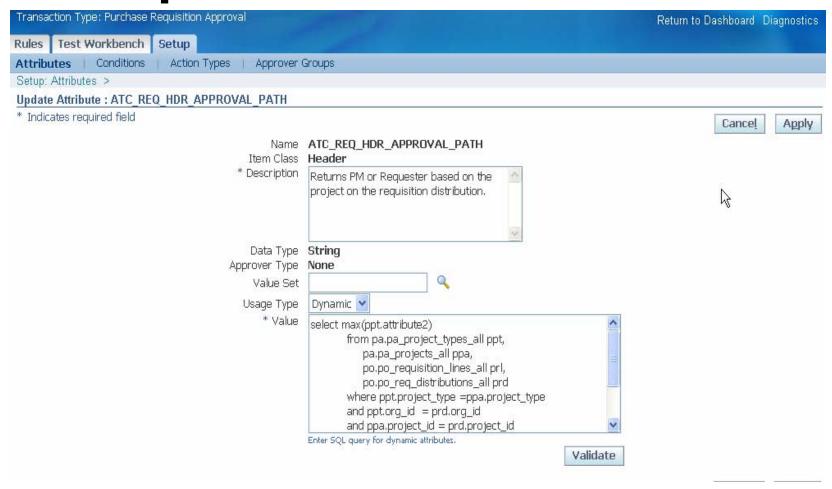
# **Example 3 – Update Seeded Attribute**







#### Example 3 - Custom Attribute







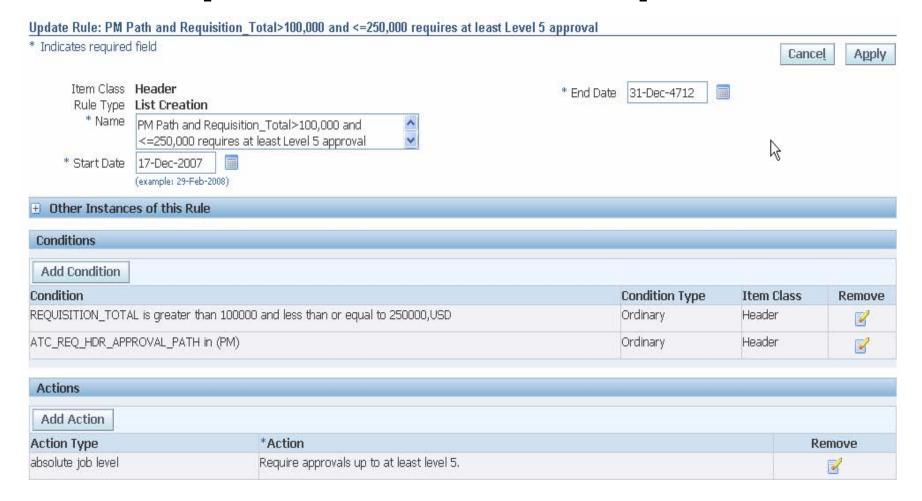
# **Example 3 - Conditions**

Update Condition: ATC_REQ_HDR_APPROV	/AL_PATH in (PM)					
	Condition Type Attribute Data Type Item Class	ATC_REQ_HDR_/ String	APPROVAL_PATH	À	Cancel	Apply
Show rules using this condition						
String Values						
String Value	Delete					
PM	Û					
Add Another Row						





#### Example 3 - Rule Set Up







#### Example 3 - Other Set Up

- Flexfield on Project Type information to indicate if it is a "PM" path
- Set up job levels on each job in HR

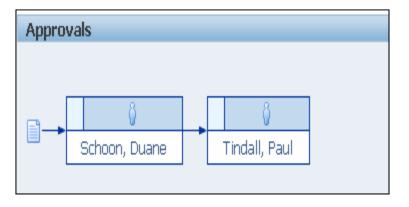




#### **Example 3 - Outcome**

- Preparer = Gary Marines
- Requester = Gary Marines
- Project Manager = Duane Schoon









#### What else does AME do?

- Parallel approvals
- FYI notifications
- 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.





#### What else does AME do?

- Conflict Resolution
  - An approver will only be required to take action once if they are repeated for some reason
  - If chain-of-authority and pre or post approval rule include the same person, chain-of-authority wins.
  - If pre and post rules include the same person, pre wins.







#### What else does AME do?

- Much More!
- We have just skimmed the surface today





#### THANK YOU

**Questions and Answers**