



# Oracle E-Business Suite Release 11i

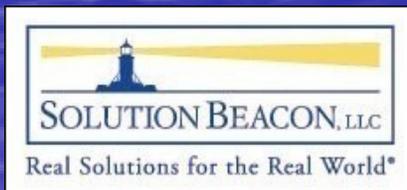
## Implementing, Personalizing and Customizing AME for AP Invoice Approvals

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Release 11i/12 Workshops

Dallas, TX • Raleigh, NC • San Ramon, CA  
Cincinnati, OH • Denver, CO • Atlanta, GA  
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# Objectives



- ◆ AME Basics
- ◆ AME Implementation (AME & AP Setup)
- ◆ AME and AP Approval Workflow
- ◆ Sample Business Case Scenarios
- ◆ Testing Workbench



## What is Oracle Approvals Management (AME)?



- ◆ Oracle Self-Service Application
- ◆ Enables development of custom rules to manage transaction approvals
- ◆ Integrated with multiple E-Business applications such as HR, PO, AP and UMX
- ◆ Builds Approver List and works with Workflow to notify and request responses



# Advantages of AME



- ◆ Approval Rules can be developed without programming knowledge
- ◆ Approver Lists leverage off existing Oracle hierarchies (e.g. HR supervisor, HR position)
- ◆ AME responds to changes such as organization hierarchies or rule changes



# AME Components



- ◆ Transaction Types
- ◆ Attributes
- ◆ Conditions
- ◆ Actions / Action Types
- ◆ Approver Groups
- ◆ Rules



# Transaction Types



- ◆ Describe the type of transaction on which approval rules will be based (e.g. Payables Invoice Approval, Requisition Approval)
- ◆ AME delivers transaction types for many common E-Business transactions
- ◆ Custom Transaction Types can be created to integrate AME with non E-Business applications (custom application)



# Attributes



- ◆ Variables that represents business data (e.g. invoice amount, supplier, etc.)
- ◆ Building blocks of rule development
- ◆ Can be static (constant value) or dynamically retrieved at runtime (SQL query)
- ◆ Attribute data types can be alphanumeric, numeric, date, currency or Boolean



# Attributes – Data Types



- ◆ Alphanumeric – Can accommodate 100 characters
- ◆ Numeric – Must be converted to canonical form

Select `fnv_number.number_to_canonical(123456789)` from dual

- ◆ Date – Must return format  
YYYY:MON:DD:HH24:MI:SS

Select `to_char(sysdate, ame_util.versionDateFormatModel)` from dual



# Attributes – Data Types cont'd



- ◆ Currency – Dynamic conversion requires:
  - Numeric column
  - Currency
  - Conversion method
- ◆ Boolean – Allowable values are *true* or *false*
  - Use `ame_util.booleanAttributeTrue` or `ame_util.booleanAttributeFalse` to ensure proper format



# Attributes - Types



## ◆ Mandatory Attributes

- Defined in ALL transaction types in AME
- Control runtime behavior
- Value required

## ◆ Required Attributes

- Vary by transaction type
- Control certain runtime behavior
- Value required

## ◆ Optional Attributes – Any other attributes defined for a transaction type



# Conditions



- ◆ Used to evaluate the value of attributes at runtime
- ◆ Condition result can either be True or False
- ◆ Represent the *IF* part of an approval rule
- ◆ Three types of conditions
  - Ordinary-Regular
  - Ordinary-Exception
  - List Modifier



# Conditions - Types



## ◆ Ordinary-Regular

- Associates attribute with a defined value or range of values (e.g. invoice amount > 10000)

## ◆ Ordinary-Exception

- Similar to Ordinary-Regular, but can only be used in certain Rule Types (e.g. use regular rules except for Utility suppliers)

## ◆ List-Modification

- Determines if specified approver appears in an approver list (e.g. can be used for conflict of interest checking)



# Actions / Action Types



- ◆ Provide instruction to AME when an approval rule has been satisfied
- ◆ Represent the *Then* part of an approval rule
- ◆ Determine the approvers and number of approvers
- ◆ Action Types are grouping of actions
- ◆ Categorized into type of hierarchy on which approver lists are based



# Action Types – Chain-of-Authority



Action Type	Description	Example
Absolute-job-level	~Ascends HR supervisor hierarchy ~Based on specific job level	Require approvals up to job level six
Relative-job-level	~Ascends HR supervisor hierarchy ~Based on job level relative to requester's job level	Require approvals at least four levels up



# Action Types – Chain-of-Authority



Action Type	Description	Example
Manager-then-Final-Approver	~Ascends HR supervisor hierarchy ~Supervisor and final approver are required to approve	Require approval up to first supervisor and level six final approver
Final-Approver-Only	~Ascends HR supervisor hierarchy ~Only final approver needed for approval	Require approval from level six final approver



# Action Types – Chain-of-Authority



Action Type	Description	Example
Dual-Chains-of – Authority	~Ascends HR supervisor hierarchy ~Builds two separate approver lists ~Approval needed from each list	Require approval from previous and current supervisor (i.e. during employee transfer)
Line-Item-Job-Level	~Ascends HR supervisor hierarchy ~Approver chain based on line-level attributes	Require approval from manager of cost center in account code of distribution line



# Action Types – Chain-of-Authority



Action Type	Description	Example
Supervisory-Level	Ascends HR supervisor hierarchy a specified number of levels	Require approvals up to three supervisors
HR-Position	Ascends HR position hierarchy up to a specified position	Require approvals up to Accounting Manager



# Action Types – Chain-of-Authority



Action Type	Description	Example
Position-Level	Ascends HR position hierarchy a specified number of positions	Require approvals up to position at level 4



# Action Types – List Modification



Action Type	Description	Example
Final-Authority	Grants final authority to an approver by ending the approval chain when target approver is reached	If Approver is IT Manager, allow final approval
Non-Final-Authority	Revokes final authority from an approver by extending approver chain	If Approver is Harry, require approval up to one supervisor



# Action Types – Approver Group



Action Type	Description	Example
Approver-Group Chain-of-Authority	~Ascends custom approver hierarchy ~Builds chain-of-authority type approver list	If transaction item contains building material, require approvals Chris and then Sharon
Pre and Post Chain-Of-Authority	Approvers are added before or after normal chain-of-authority list build for a transaction	Require sales tax group approver, then up at least one supervisor



# Rules



- ◆ The key component in AME application approval setup
- ◆ Represents the translation of an organization business approval rule in AME
- ◆ Associate one or more conditions to a rule
- ◆ Select an action type to build approver list
  - Rule Types determine the action types that can be used on a rule



# Rules – Rule Types



## ◆ List-Creation

- Generate Chain-of-Authority Approver Lists
- Acceptable action types are Absolute-Job-Level, Relative-Job-Level, Dual Chains of Authority, Final-Approver-Only, Manager-Then-Final Approver, Supervisory Level
- Example:
  - ◆ IF INVOICE\_AMOUNT > \$500,000 , THEN REQUIRE APPROVALS UP TO AT LEAST POSITION CFO



# Rules – Rule Types



## ◆ List-Creation Exceptions

- Generate Chain-of-Authority Approver Lists
- Typically used to suppress another list-creation rule
- Uses one ordinary condition and one exception condition
- Acceptable action types are same as List-Creation rule type
- Examples:
  - ◆ Rule A: IF INVOICE\_AMOUNT < 1000 THEN REQUIRE APPROVALS UP TO 1 SUPERVISOR
  - ◆ Rule B: IF INVOICE\_AMOUNT < 1000 AND (Exception) COST\_CENTER IS IN (0743) THEN REQUIRE APPROVALS UP TO 2 SUPERVISORS



# Rules – Rule Types



## ◆ List-Modification

- Used to extend or reduce final approver authority
- Must use a condition defined as list-modification
- Acceptable action types are Final-Authority and Non-Final Authority
- Examples:
  - ◆ IF INVOICE\_AMOUNT > 1000 AND FINAL APPROVER IS GERALD JONES THEN REQUIRE APPROVAL AT LEAST ONE JOB LEVEL UP
  - ◆ IF INVOICE\_AMOUNT > 5000 AND PAYGROUP IS 'COMPEQUIP' AND ANY APPROVER IS GERALD JONES GRANT FINAL AUTHORITY



# Rules – Rule Types



## ◆ Substitution

- Allows an approver on approver list to be substituted for another person
- Common uses may be whenever an typical approver is out of the office or unavailable to perform approvals (e.g. vacation)
- Must use condition defined as list-modification condition
- Example
  - ◆ IF ANY APPROVER IS GERALD JONES, THEN SUBSTITUTE SUSAN BEHN FOR THE APPROVER



# Rules – Rule Types



## ◆ Pre- and Post-List

- Uses defined Approver Group to generate a list of approvers
- Approvers are inserted either before or after the normal chain-of-authority approver list
- Typically used to allow functional specialists to review transaction
- Example
  - ◆ IF LINE-TYPE IS 'TAX', THEN REQUIRE PREAPPROVAL FROM TAX DEPARTMENT



# Rules – Rule Types



## ◆ Combination

- Allows different action types to be used as part of a rule's actions
- Action Types combinations can either include:
  - ◆ List-Creation, List-Modification, Pre-Chain of Authority, Post-Chain of Authority
  - ◆ List-Modification and Substitution
- Example:
  - ◆ IF REQUESTER IS 'JOHN DOE', REQUIRE PRE-APPROVAL FROM TEAM LEAD, POST-APPROVAL FROM AP MANAGER



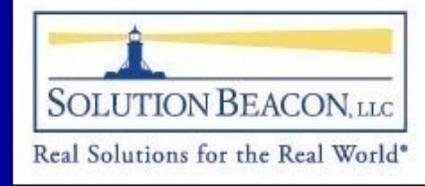
# AME and Invoice Approval



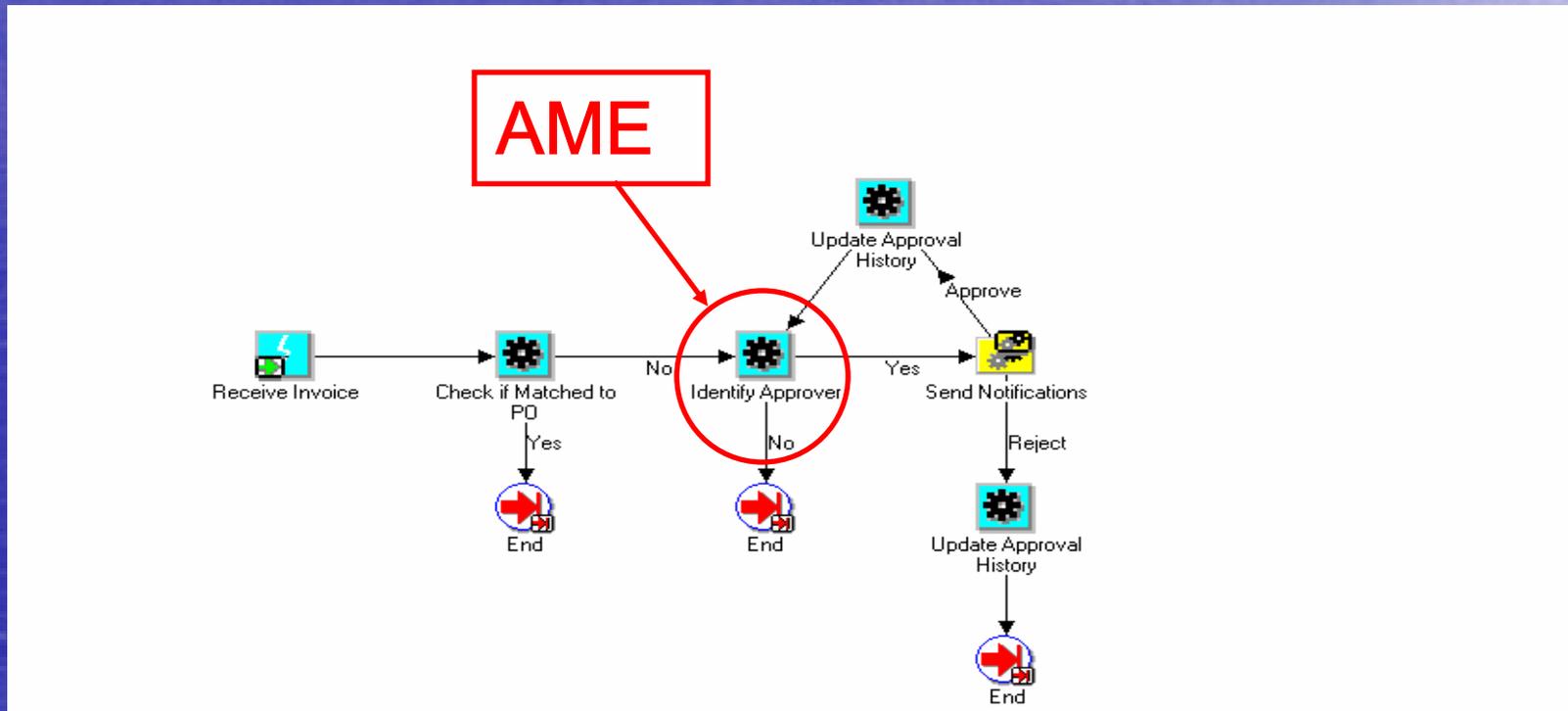
- ◆ Invoice Approval routing is controlled by AME rules via workflow
- ◆ Invoice Approval workflow communicates with AME to find approvers
- ◆ If valid approver is identified, workflow sends notification
- ◆ Workflow continues to send notifications until
  - Approval from authorized approver is reached
  - Invoice is rejected
  - Approver list is exhausted or no response received



# Invoice Approval Workflow



- ◆ Invoice Approval Workflow *Identify Approver* node calls the AME API to identify next approver



# Implement AME for Invoice Approvals



## ◆ AME Setup

- Install latest AME patch
  - ◆ 11i. AME.B (as of March, 2007)

Simple Search

Advanced Search | Quick Links | Saved Searches

Search By ⓘ Product or Family ▼ Approval Management Engine (ame) ⓘ  
(ex. RDBMS Server)

Release Applications 11i ▼

Patch Type ⓘ Patchset/Minipack ▼

Platform or Language ⓘ AIX Based Systems (32-bit) ⓘ

Go

Results for Platform : *AIX Based Systems (32-bit)*

✓ Tip Consider Saving the search to make it easy to run again. Save Search

Patch	Description	Release	Updated ▼	Size			
<a href="#">5055050</a>	Human Resources Suite Family: Patchset 11I.HR_PF.K.RUP.1	11i	30-JUN-2006	472M	📄	📁	🌐
<a href="#">4428060</a>	Approval Management Engine: Patchset 11I.AME.B	11i	30-SEP-2005	47M	📄	📁	🌐
<a href="#">3500000</a>	Human Resources Suite Family: Patchset Patch 11i.HR_PF.K	11i	05-JUL-2005	495M	📄	📁	🌐
<a href="#">3333633</a>	Human Resources Suite Family: Patchset Patch 11i.HR_PF.J	11i	14-MAR-2005	468M	📄	🔍	🌐



# Implement AME for Invoice Approvals



## ◆ AME Setup, cont'd

- Current AME application uses Oracle Role Based Access Model (RBAC) to access AME components
- The following roles are predefined with 11i.AME.B
  - ◆ Approvals Management Administrator
  - ◆ Approvals Management System Viewer
  - ◆ Approvals Management System Administrator
  - ◆ Approvals Management Process Owner
  - ◆ Approvals Management Business Analyst
- *Approvals Management Business Analyst* has access to all AME components required to define business cases



# Implement AME for Invoice Approvals



## ◆ AME Setup, cont'd

- Grant access to AME transaction types
- Functional Administrator Responsibility
  - ◆ Grants Tab → Create Grant
  - ◆ Select user as grantee
  - ◆ Select *AME Transaction Types* as object
  - ◆ Choose All rows
  - ◆ Instance type = *AME Calling Applications*
  - ◆ Review and finish



# Implement AME for Invoice Approvals



## ◆ System Administrator

- Set the profile option *AME:Installed* to 'Yes' for Payables application

Profile Option Name	Site	Application	Responsibility	User
AME:Installed	No	Payables		
		Yes		



# Implement AME for Invoice Approvals



## ◆ AP Setup

- Payables options related to invoice approval

- ◆ *Use Invoice Approval Workflow*

- Enables invoice approval in Payables
- All invoices (manual and/or imported) are required to go through workflow for approval

- ◆ *Allow Force Approval*

- Allows invoices to be manually approved without going through the workflow approval cycle

- ◆ *Require Validation Before Approval*

- Requires invoice to be fully validated before it can be initiated for approval routing



# Implement AME for Invoice Approvals



Payables Options (Vision Operations: USD)

Accounting M... Trans... Payme... Curre... Supplier Invoice Match... Interest Expen... Payment

**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 (J)
- Goods Received / System Date

**Prepayment**

Payment Terms

Settlement Days

Build Prepayment Accounts when Matching



# AME Dashboard



- ◆ Current version 11i/AME.B delivers a dashboard page to provide access to AME application
- ◆ Dashboard page contents differ depending on which AME role is assigned and accessed
- ◆ AME Business Analyst dashboard provides 'birds-eye view' of AME setup components (e.g. attributes, conditions, rules)



# Business Analyst Dashboard



## Business Analyst Dashboard

This page displays the transaction types to which you have access and the rules attached to these transaction types.

### Transaction Types

Previous 1-5 Next 5

Name ▲	Application	Rules	Test	Setup
<a href="#">AMW Audit Procedure Approval</a>	Internal Controls Manager			
<a href="#">AMW Control Approval</a>	Internal Controls Manager			
<a href="#">AMW Risk Approval</a>	Internal Controls Manager			
<a href="#">BOM ERES Bill of Materials Creation</a>	Bills of Material			
<a href="#">BOM ERES Bill of Materials Update</a>	Bills of Material			

### Recently Updated Rules

This table displays the rules whose definition and usages has changed.

Since number of days

Previous 1-5 Next 5

Name	Rule Type	Transaction Type	Action	Date ▼	User	Update
<a href="#">SB Sales Tax Group Approval</a>	Pre List Approver Group	Payables Invoice Approval	Created	25-Feb-2007	GERALDJONES	
<a href="#">SB Tax Group Approver Rule</a>	Pre List Approver Group	Payables Invoice Approval	Deleted	25-Feb-2007	GERALDJONES	
<a href="#">SB Tax Group Approver Rule</a>	Pre List Approver Group	Payables Invoice Approval	Created	25-Feb-2007	GERALDJONES	
<a href="#">SB Million \$ Invoice</a>	List Creation	Payables Invoice Approval	Created	25-Feb-2007	GERALDJONES	
<a href="#">SB Million \$ Invoice</a>	List Creation	Payables Invoice Approval	Deleted	25-Feb-2007	GERALDJONES	

### Future Active Rules

### Future Inactive Rules

### Approval Process Setup

#### 1. Select the transaction type

#### 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 attributes within rules. If all conditions in a rule are true then the rule is active for the transaction.

##### Action Types

Enable action types to specify the action to take if a rule is active for a transaction.

##### Approver Groups

Define approver groups to contain approvers who are usually members of peer groups such as payroll or expenses department.

#### 3. Define the approval rules

Approval Rules determine the approvers or FYI notification recipients required for a business transaction.

##### Rules

#### 4. Test Workbench

Define test cases or test real transactions to verify the approval setup, rules and associated approvers.

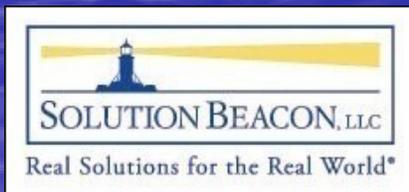
##### Test Workbench



# AME Implementation Examples

## Release 11/12 Workshops

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Cincinnati, OH • Denver, CO • Atlanta, GA  
Detroit, MI • Las Vegas, NV • Worcester, MA



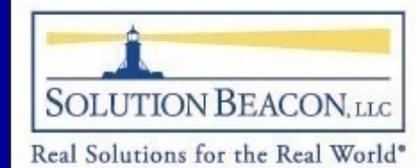
# Business Case #1



- ◆ Require Approvals up 1 level from invoice requester for any invoice \$100 or greater
- ◆ The following AME components need to be defined
  - Attribute: Total Invoice Amount
  - Condition: Total Invoice Amount  $\geq 100$
  - Rule: If Total Invoice Amount  $\geq 100$ , then require approvals up to first supervisor



# Business Case #1 – Attribute Setup



## ◆ Attribute Name: SB\_INVOICE\_AMT

**ORACLE® Approvals Management** [Return to Dashboard](#) [Home](#) [Logout](#) [Preferences](#) [Help](#) [Personalize Page](#)

Transaction Type: Payables Invoice Approval **Rules** | **Test Workbench** | **Setup**

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

[Setup: Attributes](#) >

### Update Attribute : SB\_INVOICE\_AMT

\* Indicates required field

Name	<b>SB_INVOICE_AMT</b>	<input type="button" value="Cancel"/>	<input type="button" value="Apply"/>
Item Class	<b>Header</b>		
* Description	<input type="text" value="Custom Invoice Amount"/>		
Data Type	<b>Number</b>		
Approver Type	<b>None</b>		
Value Set	<input type="text"/>		
Usage Type	Dynamic <input type="button" value="v"/>		
* Value	<input type="text" value="select fnd_number.number_to_canonical&lt;br/&gt;(ai.INVOICE_AMOUNT)&lt;br/&gt;from ap_invoices_all ai&lt;br/&gt;where ai.invoice_id = :transactionId"/>		

Enter SQL query for dynamic attributes.

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# Business Case #1 – Condition Setup



- ◆ Condition Name: SB\_INVOICE\_AMT is greater than or equal to 100

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Transaction Type: Payables Invoice Approval **Rules** | **Test Workbench** | **Setup**

[Attributes](#) | **Conditions** | [Action Types](#) | [Approver Groups](#)

[Setup: Conditions](#) >

**Update Condition: SB\_INVOICE\_AMT is greater than or equal to 100**

Condition Type	<b>Ordinary</b>
Attribute	<b>SB_INVOICE_AMT</b>
Data Type	<b>Number</b>
Item Class	<b>Header</b>

[▶ Show rules using this condition](#)

**Details**

SB\_INVOICE\_AMT is  100 and

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# Business Case #1 – Rules Setup



- ◆ Total Invoice Amount  $\geq$  \$100, then require approvals up to the first supervisor (SB Invoice Rule ( $>$  \$100))

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Transaction Type: Payables Invoice Approval **Rules** [Test Workbench](#) [Setup](#)

[Rules](#) >

### Update Rule: SB Invoice Invoice Rule (> \$100)

\* Indicates required field

Item Class **Header** \* End Date

Rule Type **List Creation**

\* Name

\* Start Date    
(example: 27-Feb-2007)

**Other Instances of this Rule**

**Conditions**

Condition	Condition Type	Item Class	Remove
SB_INVOICE_AMT is greater than or equal to 100	Ordinary	Header	<input type="button" value="Remove"/>

**Actions**

Action Type	Action	Remove
supervisory level	Require approvals up to the first superior.	<input type="button" value="Remove"/>

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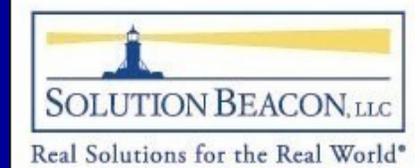
## Business Case #2



- ◆ Require pre-approval from the Tax Approver group, for any invoices \$100 or greater with Sales Tax lines
- ◆ The following New AME components need to be defined
  - Attribute: Sales Tax Present on Invoice
  - Condition: Sales Tax Present on Invoice > 0
  - Approver Group: Sales Tax Group
  - Rule: If Sales Tax Present on Invoice > 0, then require pre-approval from the sales tax approver group, then up to the first supervisor



# Business Case #2 – Attribute Setup



## ◆ Attribute Name: SB\_SALES\_TAX\_PRESENT

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Transaction Type: Payables Invoice Approval [Rules](#) [Test Workbench](#) [Setup](#)

[Attributes](#) | [Conditions](#) | [Action Types](#) | [Approver Groups](#)

[Setup: Attributes](#) >

### Update Attribute : SB\_SALES\_TAX\_PRESENT

\* Indicates required field

Name	<b>SB_SALES_TAX_PRESENT</b>	<a href="#">Cancel</a> <a href="#">Apply</a>
Item Class	<b>Header</b>	
* Description	Any Sales Tax lines present on the current invoice	
Data Type	<b>Number</b>	
Approver Type	<b>None</b>	
Value Set	<input type="text"/>	
Usage Type	Dynamic <input type="button" value="v"/>	
* Value	<pre>SELECT COUNT(*) FROM ap_invoice_distributions_all aid , ap_tax_codes_all atc WHERE aid.invoice_id = :transactionId AND aid.tax_code_id = atc.tax_id AND aid.line_type_lookup_code in ('TAX') AND UPPER(atc.name) = 'SALES TAX'</pre>	
	<small>Enter SQL query for dynamic attributes.</small>	<a href="#">Validate</a>

[Cancel](#) [Apply](#)

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# Business Case #2 – Condition Setup



◆ Condition Name: SB\_SALES\_TAX\_PRESENT is greater than 0

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Transaction Type: Payables Invoice Approval **Rules** | **Test Workbench** | **Setup**

[Attributes](#) | **Conditions** | [Action Types](#) | [Approver Groups](#)

[Setup: Conditions](#) >

### Update Condition: SB\_SALES\_TAX\_PRESENT is greater than 0

Condition Type	<b>Ordinary</b>
Attribute	<b>SB_SALES_TAX_PRESENT</b>
Data Type	<b>Number</b>
Item Class	<b>Header</b>

[▶ Show rules using this condition](#)

#### Details

SB\_SALES\_TAX\_PRESENT is  and

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# Business Case #2 – Approver Group



## ◆ Approver Group: SB Sales Tax Group

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Transaction Type: Payables Invoice Approval Rules Test Workbench Setup

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

Setup: Approver Groups >

### Update Approver Group :SB Sales Tax Group

\* Indicates required field Cancel Apply

► Rules Using the Approver Group

---

**Details**

Name	<b>SB Sales Tax Group</b>
* Description	List of approvers needed to review invoices with sales tax lines
* Order Number	6
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	Delete
HR People	HR People: Berry-Jones, Halle	1	

[Add Another Row](#)



# Business Case #2 – Rules Setup



- ◆ If Sales Tax Present on Invoice > 0 and total invoice amount >= 100, then require pre-approval from the sales tax approver group, then up to the first supervisor

**ORACLE Approvals Management** Return to Dashboard Home Logout Preferences Help Personalize Page

Transaction Type: Payables Invoice Approval **Rules** Test Workbench Setup

Rules > **Update Rule: SB Sales Tax Approval Rule** Cancel Apply

\* Indicates required field

Item Class **Header** \* End Date 31-Dec-4712  
 Rule Type **Combination**  
 \* Name SB Sales Tax Approval Rule  
 \* Start Date 27-Feb-2007 (example: 27-Feb-2007)

► Other Instances of this Rule

**Conditions**

Add Condition

Condition	Condition Type	Item Class	Remove
SB_SALES_TAX_PRESENT is greater than 0	Ordinary	Header	
SB_INVOICE_AMT is greater than or equal to 100	Ordinary	Header	

**Actions**

Add Action

Action Type	Action	Remove
supervisory level	Require approvals up to the first superior.	
pre-chain-of-authority approvals	Require pre-approval from SB Sales Tax Group	

Cancel Apply

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

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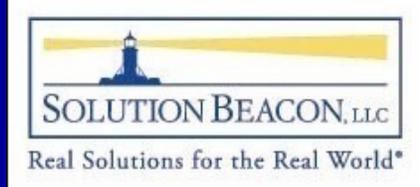
# AME Testing Workbench



- ◆ 11i/AME.B provides a testing workbench to allow defined business rules to be evaluated and tested against transactions
- ◆ Testing workbench allows user to verify various aspects of setups
  - Are attribute values, particularly custom attributes retrieving values correctly?
  - Does the invoice satisfy the appropriate rule?
  - Is the proper approver chain being generated for the transaction based on the rule chosen?



# AME Testing Workbench



## ◆ The testing workbench can be accessed from the Business Analyst Dashboard

**ORACLE** Approvals Management

Home Logout Preferences Personalize Page

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**Business Analyst Dashboard**  
 This page displays the transaction types to which you have access and the rules attached to these transaction types.

**Transaction Types**

Name	Application	Rules	Test	Setup
<a href="#">AMW Audit Procedure Approval</a>	Internal Controls Manager			
<a href="#">AMW Control Approval</a>	Internal Controls Manager			
<a href="#">AMW Risk Approval</a>	Internal Controls Manager			
<a href="#">BOM ERES Bill of Materials Creation</a>	Bills of Material			
<a href="#">BOM ERES Bill of Materials Update</a>	Bills of Material			

◁ Previous 1-5 Next 5 ▷

**Recently Updated Rules**  
 This table displays the rules whose definition and usages has changed.  
 Since number of days

Name	Rule Type	Transaction Type	Action	Date	User	Update
<a href="#">SB Sales Tax Group Approval</a>	Pre List Approver Group	Payables Invoice Approval	Created	25-Feb-2007	GERALDJONES	
<a href="#">SB Tax Group Approver Rule</a>	Pre List Approver Group	Payables Invoice Approval	Deleted	25-Feb-2007	GERALDJONES	
<a href="#">SB Tax Group Approver Rule</a>	Pre List Approver Group	Payables Invoice Approval	Created	25-Feb-2007	GERALDJONES	
<a href="#">SB Million \$ Invoice</a>	List Creation	Payables Invoice Approval	Created	25-Feb-2007	GERALDJONES	
<a href="#">SB Million \$ Invoice</a>	List Creation	Payables Invoice Approval	Deleted	25-Feb-2007	GERALDJONES	

◁ Previous 1-5 Next 5 ▷

**Approval Process Setup**

- Select the transaction type**
- 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 attributes within rules. If all conditions in a rule are true then the rule is active for the transaction.  
[Action Types](#)  
 Enable action types to specify the action to take if a rule is active for a transaction.  
[Approver Groups](#)  
 Define approver groups to contain approvers who are usually members of peer groups such as payroll or expenses department.
- Define the approval rules**  
 Approval Rules determine the approvers or FYI notification recipients required for a business transaction.  
[Rules](#)
- Test Workbench**  
 Define test cases or test real transactions to verify the approval setup, rules and associated approvers.  
[Test Workbench](#)

▶ Future Active Rules  
 ▶ Future Inactive Rules



# Using the AME Testing Workbench



- ◆ To execute a test within the workbench, a test case has to be defined

**ORACLE** Approvals Management [Return to Dashboard](#) | [Home](#) | [Logout](#) | [Preferences](#) | [Help](#) | [Personalize Page](#)

Transaction Type: Payables Invoice Approval **Rules** | **Test Workbench** | Setup

[Test Workbench](#) >  
**Create Test Case**

Name:   
Description:

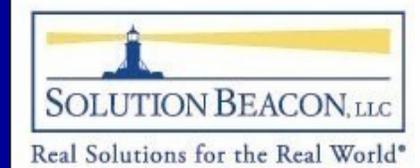
[Expand All](#) | [Collapse All](#)

Focus	Test Data	Value	Add/Delete Item
<input type="checkbox"/>	Parameters		

[Rules](#) | [Test Workbench](#) | [Setup](#) | [Return to Dashboard](#) | [Home](#) | [Logout](#) | [Preferences](#) | [Help](#) | [Personalize Page](#)



# Using the AME Testing Workbench



- ◆ The following confirmation page appears once changes are saved

**ORACLE** Approvals Management Return to Dashboard Home Logout Preferences Help Personalize Page

Transaction Type: Payables Invoice Approval Rules **Test Workbench** Setup

---

**Confirmation**  
Test case OAUG Test Case has been saved successfully.

**Test Workbench** Run Real Transaction Test (1)

**Test Cases**

Select Test Case:

Select	Name	Description	Last Updated	Update	Delete
<input checked="" type="radio"/>	OAUG Test Case	Test Case to demonstrate AME setup at OAUG 2007	27-Feb-2007		

Run Real Transaction Test (1)

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

### Test Workbench

The Workbench enables you to define test cases to verify your approval setup. Approval Management treats a test case as a real transaction. It evaluates your defined rule and generates an approver list for your review.

### Getting Started

- To create a new test case for the current transaction type, click Create.
- To view the applicable rules and approver list for an existing test case, select the test case and click Run.
- To duplicate an existing test case that you can modify later, select the test case and click Copy.
- To view the applicable rules and approvers for a real transaction, click Run Real Transaction Test.



# Testing Workbench – An Example



- ◆ Test the previous defined rule for Business Case #2. Enter an invoice with a Sales Tax line

Invoices (Vision Operations: USD) Batch Control Total  Actual Total

For use with approval workflow

Type	Requester	Supplier	Site	Invoice Date	Invoice Num	Invoice Amount	Description
Standard	Jones, Gerald K	Anderson Fabric Compan	GOWNS	27-FEB-2007	AMETEST	160.88	AME Workbench Test

1 General | 2 Holds | 3 View Payments | 4 Scheduled Payments | 5 View Prepayment Applications

**Amount Paid**

USD

**Invoice Status**

Status

Accounted

**Approval Status**

Approval

Pending Approver

Description

**Summary**

Holds

Distribution Total





# Testing Workbench – An Example



- ◆ Create new test case (*O AUG Test Case*). Choose *Run Real Transaction Test* to execute a test

ORACLE® Approvals Management Return to Dashboard Home Logout Preferences Help Personalize Page

Transaction Type: Payables Invoice Approval Rules **Test Workbench** Setup

---

### Test Workbench

**Test Cases**

Select Test Case:   |

Select	Name	Description	Last Updated	Update	Delete
<input checked="" type="radio"/>	<a href="#">O AUG Test Case</a>	Test Case to demonstrate AME setup at O AUG 2007	27-Feb-2007		

#### Test Workbench

The Workbench enables you to define test cases to verify your approval setup. Approval Management treats a test case as a real transaction, it evaluates your defined rule and generates an approver list for your review.

#### Getting Started

- To create a new test case for the current transaction type, click Create.
- To view the applicable rules and approver list for an existing test case, select the test case and click Run.
- To duplicate an existing test case that you can modify later, select the test case and click Copy.
- To view the applicable rules and approvers for a real transaction, click Run Real Transaction Test.

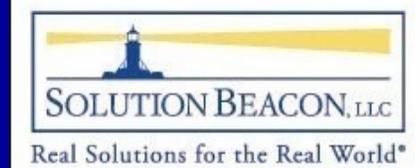
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[Rules](#) | [Test Workbench](#) | [Setup](#) | [Return to Dashboard](#) | [Home](#) | [Logout](#) | [Preferences](#) | [Help](#) | [Personalize Page](#)

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# Testing Workbench – An Example



- ◆ Transaction id is the id of the invoice entered earlier

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Transaction Type: Payables Invoice Approval [Rules](#) [Test Workbench](#) [Setup](#)

[Test Workbench](#) >

### Real Transaction Test

\* Indicates required field [Cancel](#) [Save for Later \(1\)](#) [Run Test Case \(2\)](#)

\* Transaction Id  [Go](#)

TIP Transaction ID is the ID of a real transaction which AME uses to evaluate rules and generate approvers.

Transaction Data	Value
No results found.	

[Cancel](#) [Save for Later \(1\)](#) [Run Test Case \(2\)](#)



# Testing Workbench – An Example



- ◆ First page previews the retrieved values for any defined attributes

**ORACLE® Approvals Management** Return to Dashboard Home Logout Preferences Help Personalize Page

Transaction Type: Payables Invoice Approval Rules **Test Workbench** Setup

Test Workbench >

### Real Transaction Test

\* Indicates required field Cancel Save for Later (1) Run Test Case (2)

\* Transaction Id

✓ TIP Transaction ID is the ID of a real transaction which AME uses to evaluate rules and generate approvers.

[Expand All](#) | [Collapse All](#)

Focus Transaction Data	Value
Parameters	
Mandatory Attributes	
Header Attributes	
Transaction ID: 64007	
ALLOW_EMPTY_APPROVAL_GROUPS	true
FIRST_STARTING_POINT_PERSON_ID	
INCLUDE_ALL_JOB_LEVEL_APPROVERS	true
JOB_LEVEL_NON_DEFAULT_STARTING_POINT_PERSON_ID	
SB_INVOICE_AMT	160.88
SB_SALES_TAX_PRESENT	1
SECOND_STARTING_POINT_PERSON_ID	
SUPERVISORY_NON_DEFAULT_STARTING_POINT_PERSON_ID	
CURRENCY_CODE	USD
VALUE	160.88
CONVERSION_TYPE	Corporate
SUPPLIER_INVOICE_AMOUNT	
SUPPLIER_INVOICE_ATTRIBUTE_CATEGORY	
SUPPLIER_INVOICE_ATTRIBUTE1	
SUPPLIER_INVOICE_ATTRIBUTE10	
SUPPLIER_INVOICE_ATTRIBUTE11	
SUPPLIER_INVOICE_ATTRIBUTE12	



# Testing Workbench – An Example



SUPPLIER_INVOICE_ATTRIBUTE15	
SUPPLIER_INVOICE_ATTRIBUTE2	
SUPPLIER_INVOICE_ATTRIBUTE3	
SUPPLIER_INVOICE_ATTRIBUTE4	
SUPPLIER_INVOICE_ATTRIBUTE5	
SUPPLIER_INVOICE_ATTRIBUTE6	
SUPPLIER_INVOICE_ATTRIBUTE7	
SUPPLIER_INVOICE_ATTRIBUTE8	
SUPPLIER_INVOICE_ATTRIBUTE9	
SUPPLIER_INVOICE_BASE_AMOUNT	
SUPPLIER_INVOICE_CREATION_DATE	27-Feb-2007
SUPPLIER_INVOICE_CURRENCY_CODE	USD
SUPPLIER_INVOICE_DATE	27-Feb-2007
SUPPLIER_INVOICE_DESCRIPTION	AME Workbench Test
SUPPLIER_INVOICE_EXCHANGE_RATE_TYPE	
SUPPLIER_INVOICE_EXPENDITURE_ORGANIZATION_NAME	
SUPPLIER_INVOICE_GLOBAL_ATTRIBUTE1	
SUPPLIER_INVOICE_GLOBAL_ATTRIBUTE10	
SUPPLIER_INVOICE_GLOBAL_ATTRIBUTE11	
SUPPLIER_INVOICE_GLOBAL_ATTRIBUTE12	
SUPPLIER_INVOICE_GLOBAL_ATTRIBUTE13	
SUPPLIER_INVOICE_GLOBAL_ATTRIBUTE14	
SUPPLIER_INVOICE_GLOBAL_ATTRIBUTE15	
SUPPLIER_INVOICE_GLOBAL_ATTRIBUTE16	
SUPPLIER_INVOICE_GLOBAL_ATTRIBUTE17	
SUPPLIER_INVOICE_GLOBAL_ATTRIBUTE18	
SUPPLIER_INVOICE_GLOBAL_ATTRIBUTE19	
SUPPLIER_INVOICE_GLOBAL_ATTRIBUTE2	
SUPPLIER_INVOICE_GLOBAL_ATTRIBUTE20	
SUPPLIER_INVOICE_GLOBAL_ATTRIBUTE3	
SUPPLIER_INVOICE_GLOBAL_ATTRIBUTE4	
SUPPLIER_INVOICE_GLOBAL_ATTRIBUTE5	
SUPPLIER_INVOICE_GLOBAL_ATTRIBUTE6	



# Testing Workbench – An Example



SUPPLIER_INVOICE_GLOBAL_ATTRIBUTE2	
SUPPLIER_INVOICE_GLOBAL_ATTRIBUTE20	
SUPPLIER_INVOICE_GLOBAL_ATTRIBUTE3	
SUPPLIER_INVOICE_GLOBAL_ATTRIBUTE4	
SUPPLIER_INVOICE_GLOBAL_ATTRIBUTE5	
SUPPLIER_INVOICE_GLOBAL_ATTRIBUTE6	
SUPPLIER_INVOICE_GLOBAL_ATTRIBUTE7	
SUPPLIER_INVOICE_GLOBAL_ATTRIBUTE8	
SUPPLIER_INVOICE_GLOBAL_ATTRIBUTE9	
SUPPLIER_INVOICE_GLOBAL_ATTRIBUTE_CATEGORY	
SUPPLIER_INVOICE_GOODS_RECEIVED_DATE	
SUPPLIER_INVOICE_LAST_UPDATE_DATE	27-Feb-2007
SUPPLIER_INVOICE_NUM	AMETEST
SUPPLIER_INVOICE_PAYMENT_CURRENCY_CODE	USD
SUPPLIER_INVOICE_PAYMENT_METHOD_LOOKUP_CODE	CHECK
SUPPLIER_INVOICE_PAY_GROUP_LOOKUP_CODE	Standard
SUPPLIER_INVOICE_PROJECT_RELATED	N
SUPPLIER_INVOICE_RECEIVED_DATE	
SUPPLIER_INVOICE_SOURCE	Manual Invoice Entry
SUPPLIER_INVOICE_TYPE_LOOKUP_CODE	STANDARD
SUPPLIER_INVOICE_USSGL_TRANSACTION_CODE	
SUPPLIER_INVOICE_USSGL_TRX_CODE_CONTEXT	
SUPPLIER_INVOICE_VAT_CODE	
TOP_SUPERVISOR_PERSON_ID	
TRANSACTION_DATE	
TRANSACTION_GROUP_ID	
TRANSACTION_ORG_ID	204
TRANSACTION_REQUESTOR_PERSON_ID	Jones, Gerald K
TRANSACTION_REQUESTOR_USER_ID	
TRANSACTION_SET_OF_BOOKS_ID	1
⊕ ▶ Line Item Attributes	



# Testing Workbench – An Example



- ◆ Last page previews any rules satisfied by the transaction and the approver list that was built

**ORACLE Approvals Management** [Return to Dashboard](#) [Home](#) [Logout](#) [Preferences](#) [Help](#) [Personalize Page](#)

Transaction Type: Payables Invoice Approval [Rules](#) [Test Workbench](#) [Setup](#)

[Test Workbench](#) > [Real Transaction Test](#) >

### Run Real Transaction

To review the process stages that Approvals Management took to arrive at the applicable rules and approver list, click [View Approval Process Stages](#). [View Approval Process Stages \(1\)](#)

Transaction ID **64007**

#### Applicable Rules

Details	Description	Class	RuleType	Category
<a href="#">Show</a>	SB Sales Tax Approval Rule	Header	Combination	Approver

#### Final Processed Approver List

Details	Order Number	Approver Type	Approver	Category	Status
<a href="#">Show</a>	1	HR People	Berry-Jones, Halle	Approver	
<a href="#">Show</a>	2	HR People	Behn, Susan	Approver	

[Return to Test Workbench](#) [View Approval Process Stages \(1\)](#)

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# References



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- ◆ *Oracle Approvals Management Developers Guide Release AME.B*, MetaLink Note 289927.1
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# Questions and Answers



Thank you!

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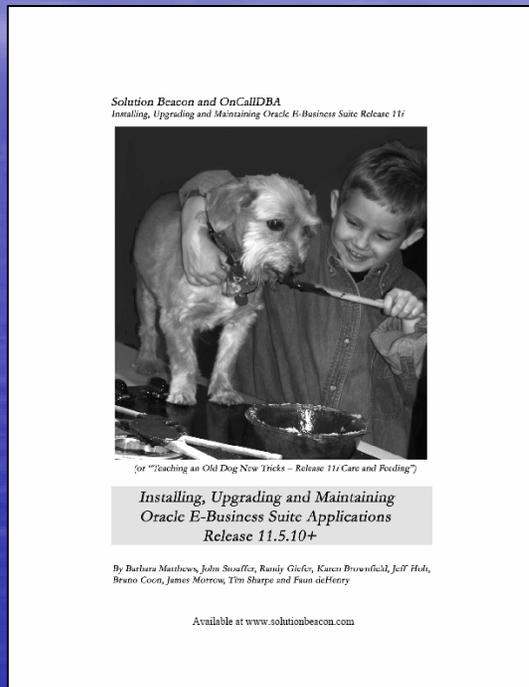
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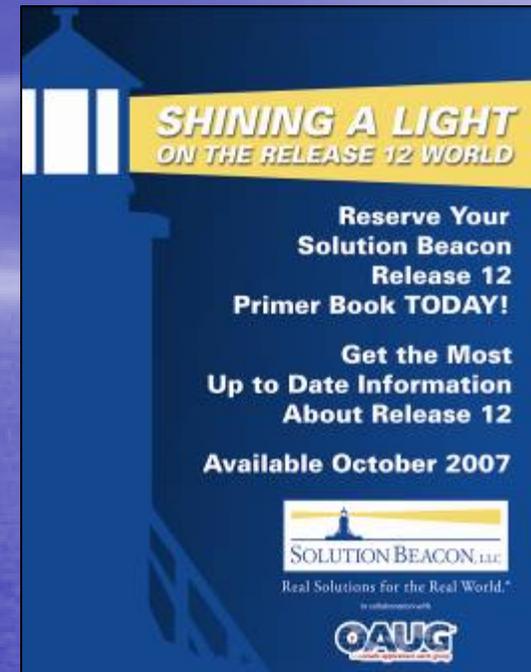
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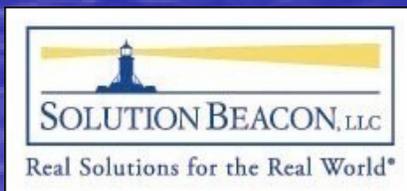
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