

Get what you want: Designing Approvals Management Engine (AME) rules for your iProcurement approvals

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IT CONVERGENCE

Introduction

Zero workflow customizations for your organization's complex document approvals? Can Approvals Management Engine (AME) really do it? What challenges follow an AME implementation? Are they functional or technical? If you've found yourself asking these questions, then this white paper is for you. This white paper attempts to provide answers to these questions and guides iProcurement users and business analysts on the necessary prerequisites for designing AME. Using practical business scenarios, it elaborates on the specific setup steps to be performed in each of the modules, and provides a step-by-step solution for configuration alternatives and rules in AME.

When an organization decides to implement an iProcurement solution for its employees' requisitions management one important consideration and driving factor for implementation is to simplify the way the requisition approvals are addressed as a part of the solution. With the increasing number of iProcurement implementations, AME is being used more widely to address these requirements.

What is AME?

AME is a separate module which can be leveraged for routing documents for approvals and can be integrated with other modules in Oracle E-Business Suite. In case of requisition approvals, AME is integrated with Purchasing and iProcurement modules to achieve the desired result for requisition approvals. From a business perspective, the goal is for the end user to be able to work with iProcurement screens without having to navigate or even know setups performed in AME. However, it is important for a business analyst to understand the process for implementing AME and how it integrates with the setup in core Purchasing, HR and iProcurement applications.

Factors which impact AME design

Before we get into the actual process of defining rules in AME, let us look at important prerequisites and factors which impact design of AME rules. The business end users of the application (requisition preparers, managers or approvers) using iProcurement have an important role to play in defining the business rules or document approval exception scenarios. This forms the basis of rules configuration in AME. Once the business rules are clearly defined, a business analyst can translate these rules into 'AME rules' which govern the behavior of transactions for requisition approvals, performed in iProcurement.

1. White boarding requirements for requisition approvals (Functional Flowchart)

The business process owners and business analyst should develop a functional flow of the approval process. This helps clearly define business rules in AME and also uncovers any exception rules. You can have one process flow depicting all business scenarios or multiple process flows based on the transaction type. Valid transaction types in AME when integrating with iProcurement are 'Purchase Requisition Approval', 'Internal Requisition Approval', and 'Requester Change Order Approval'.

The advantage of creating this document is that less time is spent in actually translating it into AME rules.

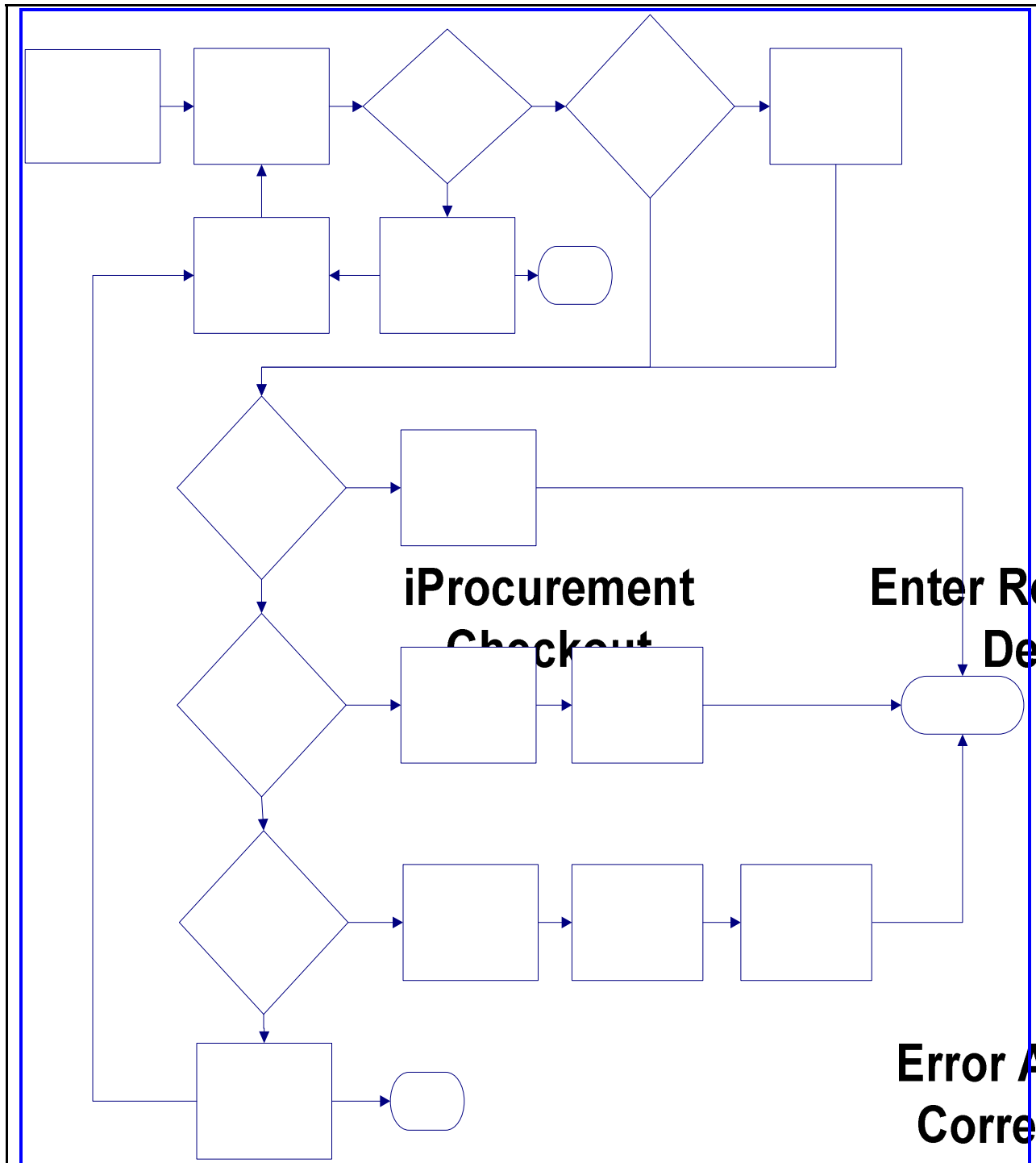
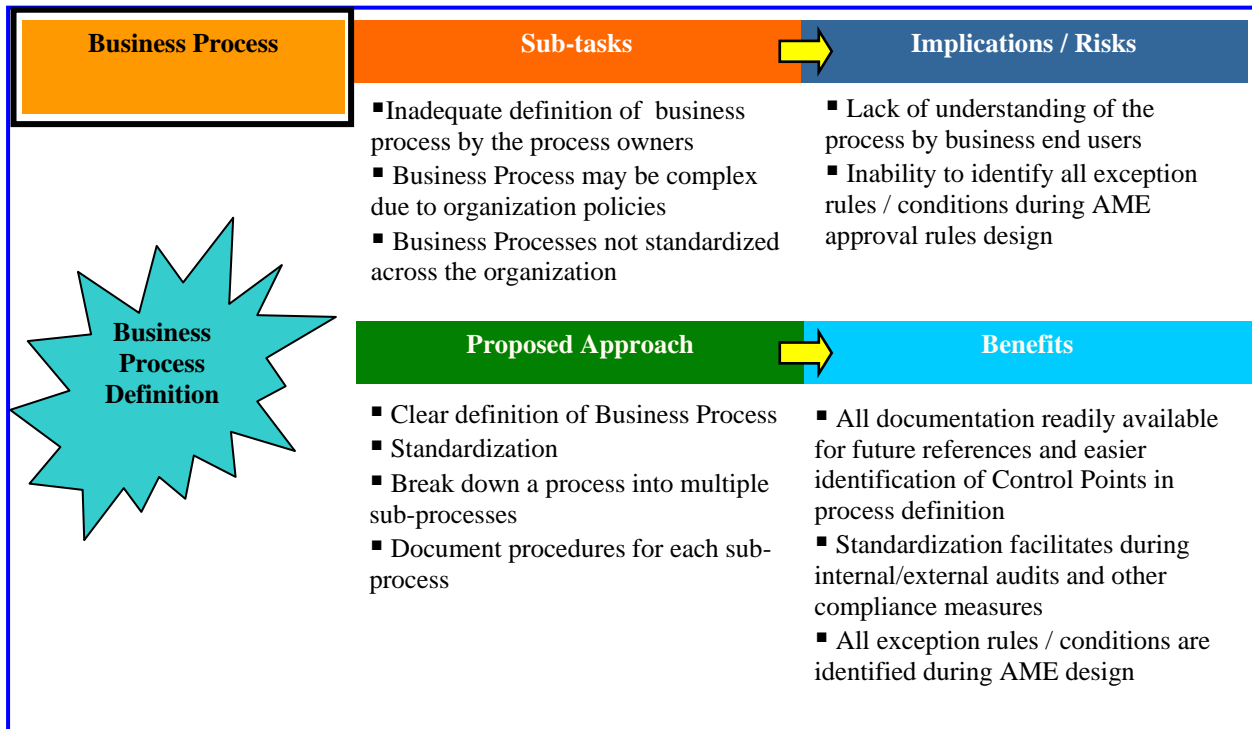


Exhibit 1

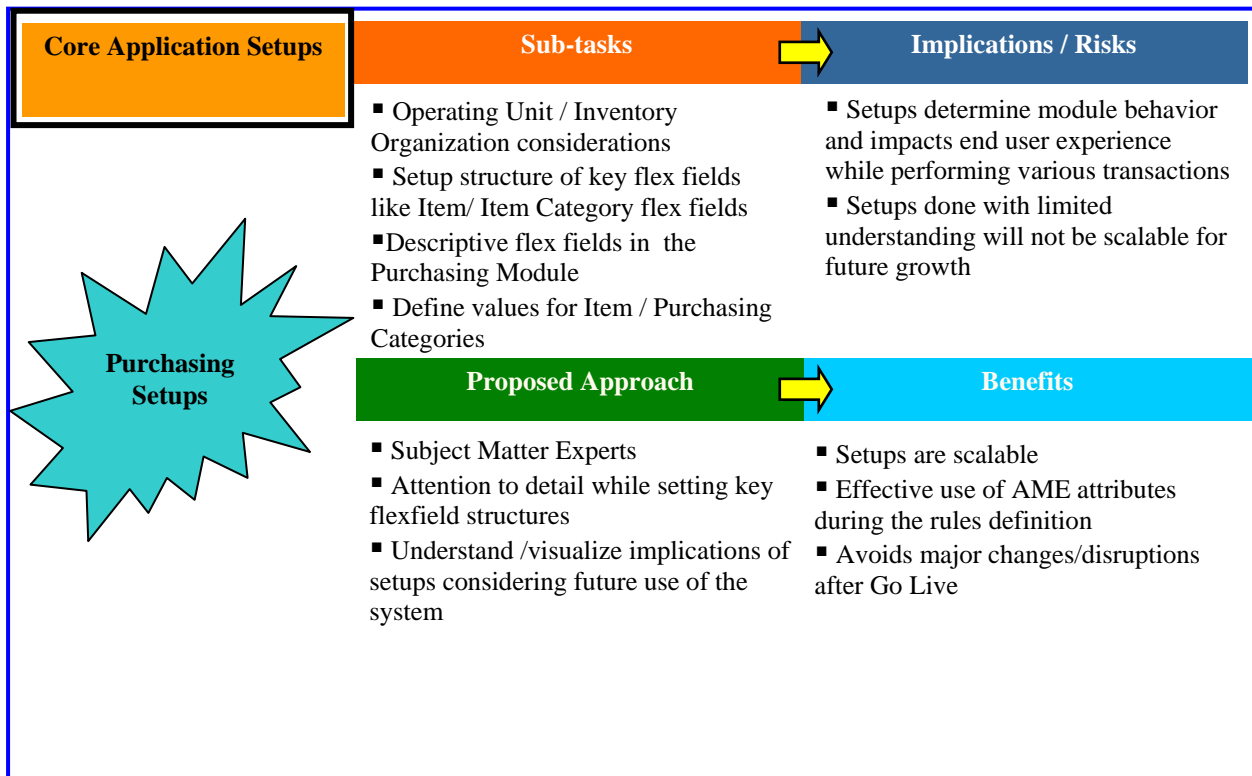
2. Implementation considerations

While it is true that AME provides flexibility to the organization in the way rules can be configured within the AME module, the foundation exists in the core setups of the modules of Oracle Purchasing and Human Resources and the initial implementation considerations. The final approval process will largely depend on how this combination of setups work in tandem for meeting the complex requisition approval routing requirements.

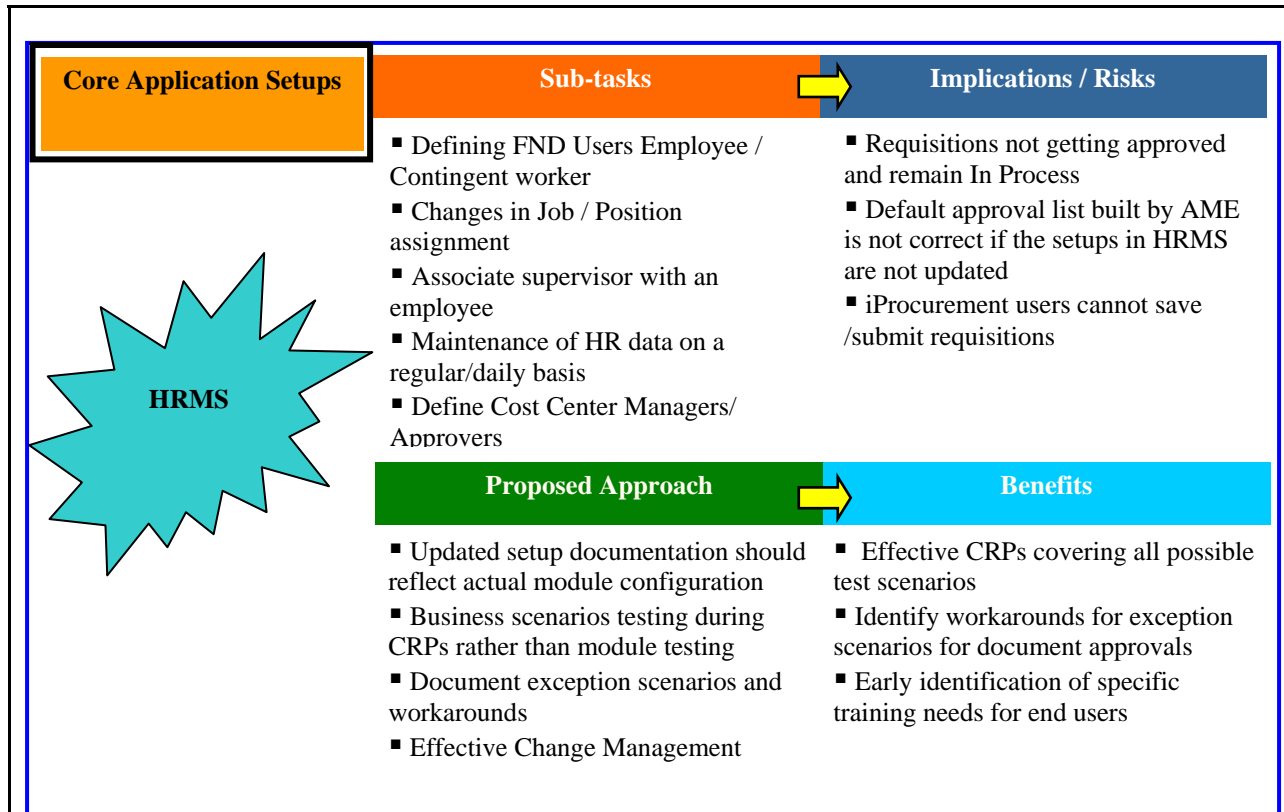
Business Process Definition



Setups in Purchasing



Setups in HRMS



3. Integration requirements with individual modules

There are many modules in Oracle Applications E Business Suite which can be implemented with AME and each module has specific integration requirements. The AME integrates with iProcurement by providing the value for Approval Transaction Type for the following type of documents:

1. Purchase Requisition (PURCHASE_REQ)
2. Internal Requisition (INTERNAL_REQ)
3. Change Order Request: Requisition (RCO)

The setup is performed in the Document Type screen in core Purchasing module and can be turned on or off for each of the Operating Units.

ORACLE Purchasing					Diagnostics Preferences Close Window	
Document Types			Operating Unit	Vision Operations	Go	
Type	Name	Document Type Layout	Contract Terms Layout	Update	Delete	
Auction Buyer Auction	Sourcing Buyer Auction	Sourcing Style Sheet	Oracle Contract Terms Template			
Change Order Request Requisition	Change Order Request: Requisition					
Purchase Agreement Blanket	Blanket Purchase Agreement	Blanket Agreement Stylesheet with Logo	Oracle Contract Terms Template			
Purchase Agreement Contract	Contract Purchase Agreement	Contract Agreement Stylesheet with Logo	Oracle Contract Terms Template			
Purchase Order Planned	Planned Purchase Order					
Purchase Order Standard	Standard Purchase Order	Edstrom - Standard PO	Oracle Contract Terms Template			
Quotation Bid	Bid Quotation					
Quotation Catalog	Catalog Quotation					
Quotation Standard	Standard Quotation					
Release Blanket	Blanket Release	Blanket Release Stylesheet with Logo				
Release Scheduled	Scheduled Release					
Requisition Internal	Internal Requisition					
Requisition Purchase	Purchase Requisition					

Exhibit 2

ORACLE Purchasing		Diagnostics Preferences Close Window	
Update Document Type: Requisition Purchase for Vision Operations			
* Indicates required field			
* Document Name		Purchase Requisition	
Approval		Control	
<input checked="" type="checkbox"/> Owner Can Approve	<input checked="" type="checkbox"/> Approver Can Modify	Security Level	Public
<input type="checkbox"/> Can Change Forward-To	<input type="checkbox"/> Can Change Approval Hierarchy	Access Level	Full
Approval Workflow	PO Requisition Approval	Autocreate Workflow	PO Create Documents
Workflow Start Process	Main Requisition Approval	Autocreate Workflow Start Process	Overall Document Creation/Launch
Approval Transaction Type	PURCHASE_REQ	<input checked="" type="checkbox"/> Use Contract Agreements for Auto-Sourcing	<input type="checkbox"/> Include Non-Catalog Requests
Forward Method	Direct		
Default Hierarchy	Materials		

Exhibit 3

4. AME Installation and enabling AME responsibilities for use

AME uses the Role Based Access Model to provide access to the AME functions to users of the application. Use the Sysadmin login and User Management responsibility to assign AME roles for specific users. Data access is provided to the users from Functional Administrator responsibility. The two seeded responsibilities which can be enabled after completion of step 4 are Approvals Management Business Analyst and Approvals Management Administrator.

Designing AME rules for requisition approval

Once the prerequisites described in the earlier section are validated and documented, a business analyst can start the actual process of rules definition in AME. The AME module has various components which are used for complete definition of rules.

The process starts with the selection of an appropriate transaction type on the Business Analyst Dashboard using the responsibility Approvals Management Business Analyst.

Transaction type

This refers to the type of business process transactions for which approval rules have to be implemented. For example, to implement 'Purchase Requisition Approval,' transaction type, it needs to be selected on the Business Analyst Dashboard. All other components which will be set up or defined and the rules created are referenced to the transaction type selected.

Each of the transaction types will have its own set of rules to govern the approval process of these transactions.

ORACLE Approvals Management

Diagnostics Home Logout Preferences

Business Analyst Dashboard
This table displays the transaction types in the order you accessed them.

Transaction Types

Name	Application	Rules	Test	Setup
Purchase Requisition Approval	Purchasing			
AMW Audit Procedure Approval	Internal Controls Manager			
AMW Control Approval	Internal Controls Manager			
AMW Risk Approval	Internal Controls Manager			
BOM ERES Bill of Materials Creation	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
No results found.						

Future Active Rules

Future Inactive Rules

Approval Process Setup

- Select the transaction type**
Purchase Requisition Approval
- 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](#)

Quick Links

- [Configuration Variables](#)
- [Setup Report](#)

Diagnostics Home Logout Preferences

Exhibit 4

Action type

Action type, by definition, is a collection of actions having similar functionality. This is the next logical step after a specific transaction type is selected. In most cases, the existing or predefined action type provided by AME can be used when selecting the Action type. Action Type is associated with the Rule type. Depending on the complexity of document approvals scenarios, different Action types should be enabled for use. While the majority of the rules can be defined using few action types, some iterative testing is required for exception scenarios.

Enabling certain Action Types also enables a set of required attributes. The value of these required attributes actually determine the first approver or sequence of approvers when AME builds the default approver list.

Setup: Action Types > Use Existing Action Type: Select Action Types >

Action Type: Absolute job level

Rule Type: Chain Of Authority
 Name: Absolute job level
 Description: Chains of authority based on absolute job level
 Handler: ame_absolute_job_level_handler
 Allowed Approver Types: HR People
 Required Attributes: INCLUDE_ALL_JOB_LEVEL_APPROVERS
 JOB_LEVEL_NON_DEFAULT_STARTING_POINT_PERSON_ID
 TOP_SUPERVISOR_PERSON_ID
 TRANSACTION_REQUESTOR_PERSON_ID

[Return to Use Existing Action Types](#)

[Return to Dashboard](#) [Diagnostics](#)

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Exhibit 5

Attributes

Attributes represent business variables with a single value for a particular transaction. Attribute use can either be 'Static' or 'Dynamic'. Most of the flexibility which AME offers while defining the rules is based on its Attributes. A business analyst can define new Attributes for use in transaction type to meet certain business requirements. Depending on the selection of Transaction Type, the attributes seen on screen will be different. Some of the attributes are mandatory and can be seen across the various transaction types. The other attributes are related to the transaction type.

The key attributes which are used in the rules formulation for requisition approvals are provided in the table below. AME derives the value of these attributes at the run time (when a transaction is initiated) and applies AME rules to the transaction for routing it to appropriate approvers.

Sr #	Attribute	Description	Usage Type	Item Class	Data Type
1.	REQUISITION_TOTAL	Requisition Total	Dynamic	Header	Currency
2.	PO_COST_CENTER	Cost Center	Dynamic	Line Item	String
3.	PO_NATURAL_ACCOUNT	Natural Account	Dynamic	Line Item	String
4.	SUPERVISORY_NON_DEFAULT_STARTING_POINT_PERSON_ID	Person ID of non-default supervisor approver for the supervisory-level approval type	Static/Dynamic	Header	Number
5.	JOB_LEVEL_NON_DEFAULT_STARTING_POINT_PERSON_ID	Person ID of non-default first approver for job-level authority approval types	Static/Dynamic	Header	Number

ORACLE Approvals Management
Transaction Type: Purchase Requisition Approval

Return to Dashboard Diagnostics

Rules Test Workbench Setup

Attributes Conditions Action Types Approver Groups

Attributes

This page enables you to view attributes present in your transaction type, create new, and reuse existing attributes to specify the business components of a transaction such as total amount, a percent discount, and a person's salary.

Search

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

Create Use Existing Attribute Previous 10 11-20 Next 10

Attribute	Description	Category	Usage Type	Item Class	Data Type	Update	Delete
ITEM_NUMBER	Item Number	Others	Dynamic	Line Item	String		
JOB_LEVEL_NON_DEFAULT_STARTING_POINT_PERSON_ID	Person ID of non-default first approver for job-level authority approval types	Required	Dynamic	Header	Number		
NON_DEFAULT_POSITION_STRUCTURE_ID	Structure ID of the non default HR position hierarchy, if any	Required	Dynamic	Header	Number		
NON_DEFAULT_STARTING_POINT_POSITION_ID	Position ID of non-default first approver for authority approval types based on HR positions	Required	Static	Header	Number		
PO_COST_CENTER	Cost Center	Others	Dynamic	Line Item	String		
PO_NATURAL_ACCOUNT	Natural Account	Others	Dynamic	Line Item	String		
REJECTION_RESPONSE	How AME responds to a rejection	Mandatory	Static	Header	String		
REPEAT_SUBSTITUTIONS	Should AME apply Substitution rules on Surrogates and ad-hoc Insertees	Mandatory	Static	Header	Boolean		
REQUESTOR_USER_NAME	Requestor User Name	Required	Static	Header	String		
REQUISITION_TOTAL	Requisition Total	Others	Dynamic	Header	Currency		

Create Use Existing Attribute Previous 10 11-20 Next 10

Exhibit 6

When setting AME rules for requisition approvals in iProcurement, there are a number of predefined attributes which can be leveraged and effectively deployed in the rules definition based on the core application setups (i.e. how the purchasing/inventory modules are setup).

Sr #	Attribute	Description	Usage Type	Item Class	Data Type
1.	COMMODITY	Commodity	Dynamic	Line Item	String
2.	DELIVER_TO_LOCATION	Deliver To Location	Dynamic	Line Item	String
3.	ITEM_CATEGORY	Item Category	Dynamic	Line Item	String
4.	ITEM_NUMBER	Item Number	Dynamic	Line Item	String
5.	TRANSACTION_ORG_ID	Org Id in which transaction occurred	Dynamic	Header	Number

In addition to the above attributes, several new attributes can be defined which can map to 1) descriptive flexfields on the requisitions, 2) particular segment in the item category flexfield if you have multiple segment category structure or 3) a particular segment from your chart of accounts structure.

Examples of new attributes defined in AME are:

Sr #	Attribute	Description	Usage Type	Item Class	Data Type
1.	REQ_HDR_DFF_ATTRIBUTE_1	Descriptive Flexfield created at the Requisition header level	Dynamic	Header	Number
2.	ITEM_CATEGORY_SEGMENT_1	Segment 1 from multiple level item category structure	Dynamic	Line Item	String
3.	COMPANY	Company segment from chart of accounts	Dynamic	Line Item	String

ORACLE® Approvals Management
Transaction Type: Purchase Requisition Approval

Return to Dashboard Diagnostics

Rules | **Test Workbench** | Setup

Attributes | Conditions | Action Types | Approver Groups

Setup: Attributes >

Create New Attribute

You can select an approver type for Number data type and a value set that contains business-specific data for Number, String, and Currency data types.

* Indicates required field

* Name:

Item Class: Header

* Description:

Data Type: Number

Approver Type:

Value Set:

Usage Type: Dynamic

* Value:

Enter SQL query for dynamic attributes.

Buttons: Cancel, Create Another (1), Apply, Validate

Exhibit 7

Conditions

Condition is one of the components within the approval rules ('If' part), which can either be true or false for a given transaction. For the rule to be active, all conditions specified in the rule definition have to be true. The conditions defined in AME use the predefined attributes provided by AME or new attributes defined by the business analyst.

ORACLE® Approvals Management
Transaction Type: Purchase Requisition Approval

Return to Dashboard Diagnostics

Rules | **Test Workbench** | Setup

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

Setup: Conditions >

Create New Condition

* Indicates required field

Condition Type: Ordinary

* Attribute: ITEM_CATEGORY

String Values

String Value	Delete
SUPPLIES.FACILITIES	<input type="button" value="Delete"/>

Buttons: Cancel, Create Another (1), Apply

Footer: About this Page Privacy Statement | Rules Test Workbench Setup Return to Dashboard Diagnostics | Copyright (c) 2008, Oracle. All rights reserved.

Exhibit 8

Action

Action is the component within approval rules which forms the ‘Then’ part. Each predefined Action Type has a set of Actions associated with it which are responsible for modifying the approvers based on the conditions (‘If’ part) which the transaction satisfy.

Approver groups

From a business perspective, approver groups contain functional approvers outside a transaction’s chain of authority. Typically, approver groups are used either for ‘pre-approvals’ or for ‘post-approvals’. AME also allows the use of ‘chain of authority’ approval groups. Approver groups can be dynamic or static and can be nested.

The screenshot shows the Oracle Approvals Management interface for creating a new approver group. The form includes the following fields and controls:

- Name:** Collaboarte08
- Description:** Panel of members for OAUG participation
- Usage Type:** Static
- Query:** (Empty text area)
- Buttons:** Cancel, Create Another (1), Apply, Validate
- Group Members:** A table for adding members to the static approver group.

Approver Type	Approver	Order Number	Delete
HR People	Limaye, Harshavardhan	1	

Exhibit 9

Requisition approvals in iProcurement: Configuration options available in AME

Formulating Rules

AME rules decide the default approver list for a transaction, based on the conditions and is in the form of ‘If- Then’ statement. All previous steps elaborated earlier and implementation considerations are put to use when defining rules in AME. This is the last step in the AME configuration. A business analyst has to understand that defining and testing AME rules is an iterative process. However, following the methodology and visualizing any exception scenarios for approvals, should provide a good foundation of rules in the first pass of testing.

Following are the key points to remember while formulating rules in the AME module.

1. Is business policy documented for dollar limits for each level of approver?

In almost all organizations, there is a dollar amount approval limit for each level of approver. If the policy is well documented, this can be used as the first guideline in rule formulation. A specific business case is discussed in the white paper delivered at Collaborate 07.¹ Some dollar limits for approval may be reviewed considering automation of requisition approvals with AME.

2. Supervisory level vs. Job level approvers:

The manner in which the setups are maintained in HR and change management practices are carried out in an organization are key factors while creating AME rules. The action type associated with each option is different and enables required attributes based on the action type.

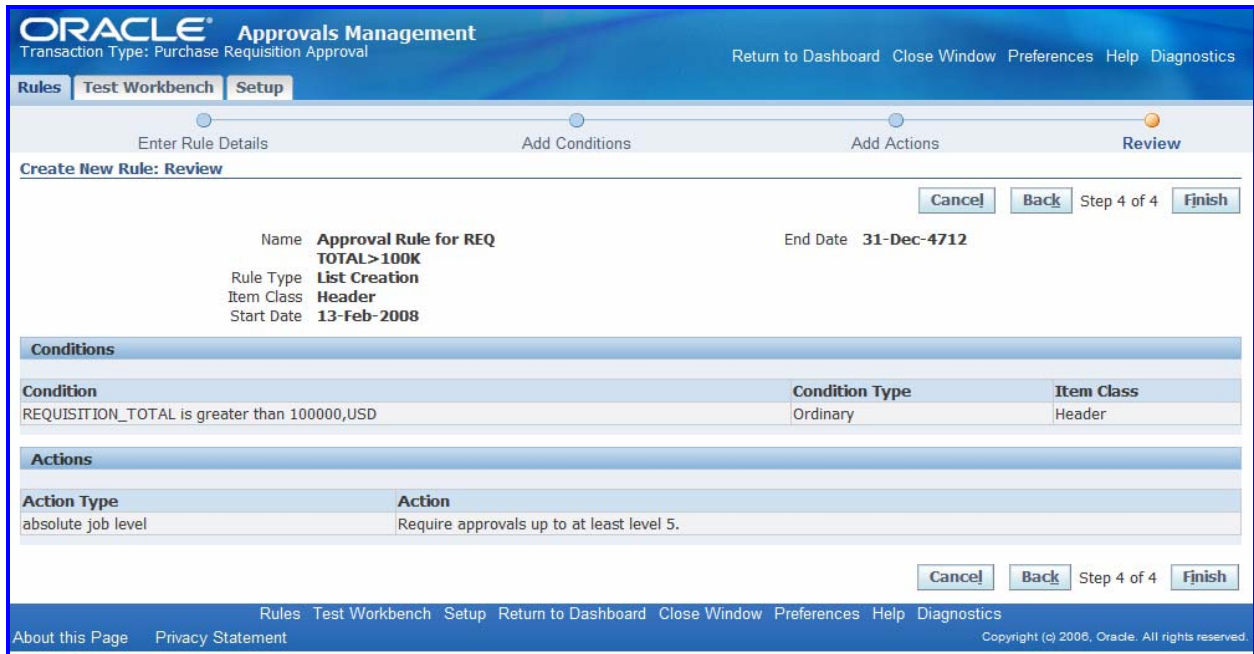


Exhibit 10

3. Identification of special approval requirements (Capital Purchases, IT purchases):

All the special approval requirements are usually met by defining a new approval group and then using pre or post approval group action types in the rule definition. Approval group members can be HR employees or FND users. The dynamic approval groups created can be nested in a static approval group.

¹ [Improving Productivity in the Procurement and Expense Reimbursement Process](#)-Collaborate 07

ORACLE® Approvals Management
Transaction Type: Purchase Requisition Approval

Return to Dashboard Close Window Preferences Help Diagnostics

Rules Test Workbench Setup

Enter Rule Details Add Conditions Add Actions Review

Create New Rule: Review

Cancel Back Step 4 of 4 Finish

Name Approval rule for Capital Purchases End Date 31-Dec-4712
 Rule Type Post List Approver Group
 Item Class Header
 Start Date 13-Feb-2008

Conditions		
Condition	Condition Type	Item Class
ITEM_CATEGORY in (SUPPLIES.FACILITIES)	Ordinary	Line Item

Actions	
Action Type	Action
post-chain-of-authority approvals	Require post-approval from Capital Purchases

Cancel Back Step 4 of 4 Finish

Rules Test Workbench Setup Return to Dashboard Close Window Preferences Help Diagnostics

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Exhibit 11

4. Define the need for parallel approvals:

Parallel approval process is documented in releases prior to R12 release of AME, but is implemented only in R12. The business requirement for parallel approval process can be met by implementing the ‘Order Number’ and ‘Ordering Mode’ feature when selecting the Action Type.

6. Determine starting point for the approval chain:

Once a decision is made to implement a specific type of approval authority, either based on the supervisory level or job level, the next step is to define the required Attribute usage. Using a dynamic usage of attribute provides much flexibility for the approval list which is built. The first approver in the approval chain of authority is determined by the SQL query you use in the definition of these attributes. This attribute use, combined with rules based on dollar approval, should account for the majority of business scenarios for requisitions management.

7. Custom approval hierarchy (not maintained in HR application):

For any custom approval hierarchy requirements AME provides an option for defining an Action type as an ‘Approval-group chain of authority’, and then one can define the rules for this action type. As elaborated in previous sections, the approval group can be static, dynamic or static approval group with nested dynamic approval group.

8. Identification of exception scenarios for Sr. Management approvals:

During the rules definition process, it may be identified that certain employees (usually Sr. Management) do not have access to the iProcurement, but their approval is required for business purposes. In such scenarios, it is beneficial to document the business process for approvals.

9. Changes/additions required to the data or setup in HR/Purchasing applications:

As a part of the overall process of AME implementation, changes or modifications to the Job/Position screen will need an approval from the organization’s HR. During the course of implementation, it is good to have a dialogue with HR, being proactive and letting them know about some of these changes. AME Rules can be based on the attributes like commodity, Item categories or descriptive flexfields in purchasing module. For complete approval scenarios testing, new values will have to be defined.

10. Providing access to iProcurement to organization employees (and contract labor)

The approvers of the AME rules need to be defined as employees with access to iProcurement or have an FND user id for Oracle applications. If the organization uses temporary workforce, this is an important consideration for iProcurement/AME implementation.

AME Implementation: Go Live Challenges:

Once the AME business rules are implemented, it is equally important to monitor the AME application and review exception logs. It may take a few weeks to stabilize the system and tighten the business processes. While most of the issues can be addressed by a business analyst, some fine-tuning may be required for the dynamic SQL queries used in the attributes or approver groups.

Some of the common issues which cause a disruption in the default approval list built by AME while performing transactions are provided below.

1. Maintain valid FND user for approvers: AME will raise exception while performing transactions for end users whose approver does not have active Oracle userid.

2. AME rules are not set for Transaction Type: iProcurement classifies all transactions in three distinct transaction types. If you integrate all transaction types with AME but only implemented rules for Purchase requisition approval, users will receive an error for transactions relating to Internal requisitions or change orders.

3. Supervisor related changes: An employee/approver may leave the organization and the HR system may not be updated to reflect this change. If the end users are submitting transactions in iProcurement during this time, some users will receive an exception, as AME will be unable to build a default approver list based on AME rules.

4. TOP_SUPERVISOR_PERSON_ID attribute is blank: If a requisition is submitted in iProcurement which is a high dollar value requisition and there are no rules created, AME will raise an exception.

5. Changes or modifications to purchasing commodities/categories: It is quite common that certain commodities in Purchasing or categories may no longer be used or new values will be added. If you have AME rules using these values, these rules should be updated or deleted accordingly. Any delay in maintenance of these rules in AME will cause issues for the iProcurement users.

Since the error messages displayed to the iProcurement users are generic, business analysts should have a good understanding of the integration aspects of AME with iProcurement before these challenges are resolved. Responsibility 'Approvals Management Administrator' is a good starting point for analyzing or troubleshooting issues related to AME rules or attributes.

The screenshot shows the Oracle Approvals Management Administrator Dashboard. The main content area displays a table of Transaction Types filtered by Application 'Purchasing'. The table has columns for Name, Transaction Type Key, Application, and Update/Delete actions. The 'Update' column contains a pencil icon, and the 'Delete' column contains a trash can icon. The table lists 11 transaction types, all associated with the 'Purchasing' application.

Name	Transaction Type Key	Application	Update	Delete
Internal Requisition Approval	INTERNAL_REQ	Purchasing		
PO ERES ASL Creation	oracle.apps.po.asl.create	Purchasing		
PO ERES ASL Update	oracle.apps.po.asl.update	Purchasing		
PO ERES Receiving Delivery	oracle.apps.po.rcv.deliver	Purchasing		
PO ERES Receiving Inspection	oracle.apps.po.rcv.inspect	Purchasing		
PO ERES Receiving Transfer	oracle.apps.po.rcv.transfer	Purchasing		
PO RCV ERES Receipt Group Transaction	oracle.apps.po.group.receive	Purchasing		
PO RCV ERES Receipt Line Transaction	oracle.apps.po.line.receive	Purchasing		
Purchase Requisition Approval	PURCHASE_REQ	Purchasing		
Requester Change Order Approval	RCO	Purchasing		

Exhibit 12

Review exception log for the type of error for AME:

Exception Log

This page enables you to view the exception details for all the transactions in the specific transaction type or the exception details for a specific transaction based on your query. To clear the exception log, click Clear Log.
 * Indicates required field

Search

* Transaction Type

Transaction ID

[Previous 10](#) | 21-30 | [Next 10](#)

Log ID	AME Application ID	Transaction ID	Package Name	Routine Name	Exception Number	Exception String
92640	-275	-434	ame_position_handler	handler	-20001	This transaction's requestor lacks a position ID, so AME cannot begin the chain of authority.
92639	-275	134800	ame_api2	getAllApprovers7	-20001	ORA-20001: The approver identified by the following parameters is invalid: originating system PER originating-system ID PER_ID. Please delete or replace this approver wherever they occur in AME data, including approval groups, list-modification conditions, and substitution actions. This approver does not have an entry in wf_roles. (ORIG_SYSTEM_ID=28311)

Exhibit 13

Conclusion:

AME is capable of providing multiple alternatives for defining business rules for an organization. The flexibility in rule definition offered by AME also depends on the core application setups of purchasing and HR. Most of the customization in AME is related to the use of dynamic attributes and its usage in the rules. Technical expertise is required to the extent of constructing SQL queries for the new dynamic attributes defined. Once this component is finalized, a business analyst can perform the other tasks in AME with a user intuitive 'Business Analyst Dashboard' and a 'Administrator Dashboard'. A structured approach for designing of AME rules and key implementation factors discussed in this white paper will help the business analysts and procurement managers to address unique requirements for managing requisition approvals.