



From AutoAccounting/Account  
Generator to Subledger Accounting  
in Oracle Projects

Edward Charity, Jr.  
Project Management Systems Consultants  
(PMSC), LLC

# Agenda

- Background of the Speaker and Company
- Objectives of the Presentation
- Background of the Projects Suite
- Evolution of Projects-based Accounting Engines
- Subledger Accounting Concepts
- Implementation Options
- Suggested Resources, Papers, and Presentations
- Questions and Answers/Wrap-up
- Contact Information

# Background of The Speaker

- Edward Charity, Jr
  - Project Management Systems Consultants (PMSC), LLC – 2001 - Present
  - CapGemini (formerly Ernst & Young) Oracle Service Line – Senior Manager 1996-2001
  - Oracle Corporation, Consulting Services – Managing Principal Consultant 1993-1996
  - Oracle Projects (Project Accounting) Implementation Consultant - 1993-Present
  - Speaker at 1997 and 2007 OAUG and OpenWorld Conferences



# Background of PMSC, LLC

- Project Management Systems Consultants (PMSC), LLC
  - Formed in 2001
  - Focused Exclusively on Enterprise Project Management Resource and Technology Solutions
  - Commercial, Government, and Government Contracting Clients
  - Services Include: Implementation Strategy and Planning; Implementation Management and Execution; Implementation Team and End-User Training; Implementation Re-work/Rescue, and Special Projects; and Post Production Support



# Objectives of the Presentation

- Brief Background of the Projects Suite
- Highlight the Evolution of Projects-based Accounting Engines
- Explain Subledger Accounting (SLA) Concepts, Highlighting Projects-specific application
- Identify Common Concepts and Major Differences
- Highlight Options for Upgrading Existing Installations
- Planning New Implementations
- Identify Additional Resources, Papers, and Presentations

# Background of the Projects Suite

- Originally Project Accounting (Circa 1993)
    - Project Costing and Billing \*
  - Enterprise Project Management Suite
    - Project Foundation/Fundamentals
    - Project Costing \*
    - Project Billing \*
    - Project Management
    - Project Collaboration
    - Project Resource Management
    - Project Portfolio Analysis
  - Project Contracts
    - Not Really a part of the Projects Suite
    - Actually a component of the Contracts Suite
  - Release 12 – February/March 2007
    - Subledger Accounting (SLA)\*
- \* Main Focus of this presentation



# Evolution of Projects-based Accounting Engines

- AutoAccounting – Cost Transactions originating from within Project Accounting
  - Labor Cost
  - Expense Report Cost (originating from PA)
  - Usage Cost
  - Miscellaneous Cost
- AutoAccounting – Revenue and Billing Transactions

# Evolution of Projects-based Accounting Engines (Cont'd)

- Flexbuilder
  - Cost Transactions originating outside of Project Accounting
    - Project-related Purchase Requisitions
    - Project-related Purchase Orders
    - Project-related Expense Reports
    - Project-related Vendor/Supplier Invoices
  - Oracle Forms-based
- Account Generator
  - Replaced Flexbuilder in Release 11
  - Oracle Workflow-based using Workflow Builder



## Evolution of Projects-based Accounting Engines (Cont'd)

- **Subledger Accounting (SLA) Engine**
  - Standard Accounting Engine for all Oracle Subledger Applications
  - New in Release 12
  - Co-exists with AutoAccounting and Account Generator for Projects-related Transactions (for now)

# Evolution of Projects-based Accounting Engines (Cont'd)

- The Common Concepts They Share
  - Project-related Information is Entered (aka P.O.E.T)
    - Project; Task; Expenditure Type; Expenditure Organization
  - Accounting Combination (aka Accounting Flexfield) is Generated
    - Company; Cost Center/Department; GL Account
  - Implementation-defined Rules derive Accounting Combination

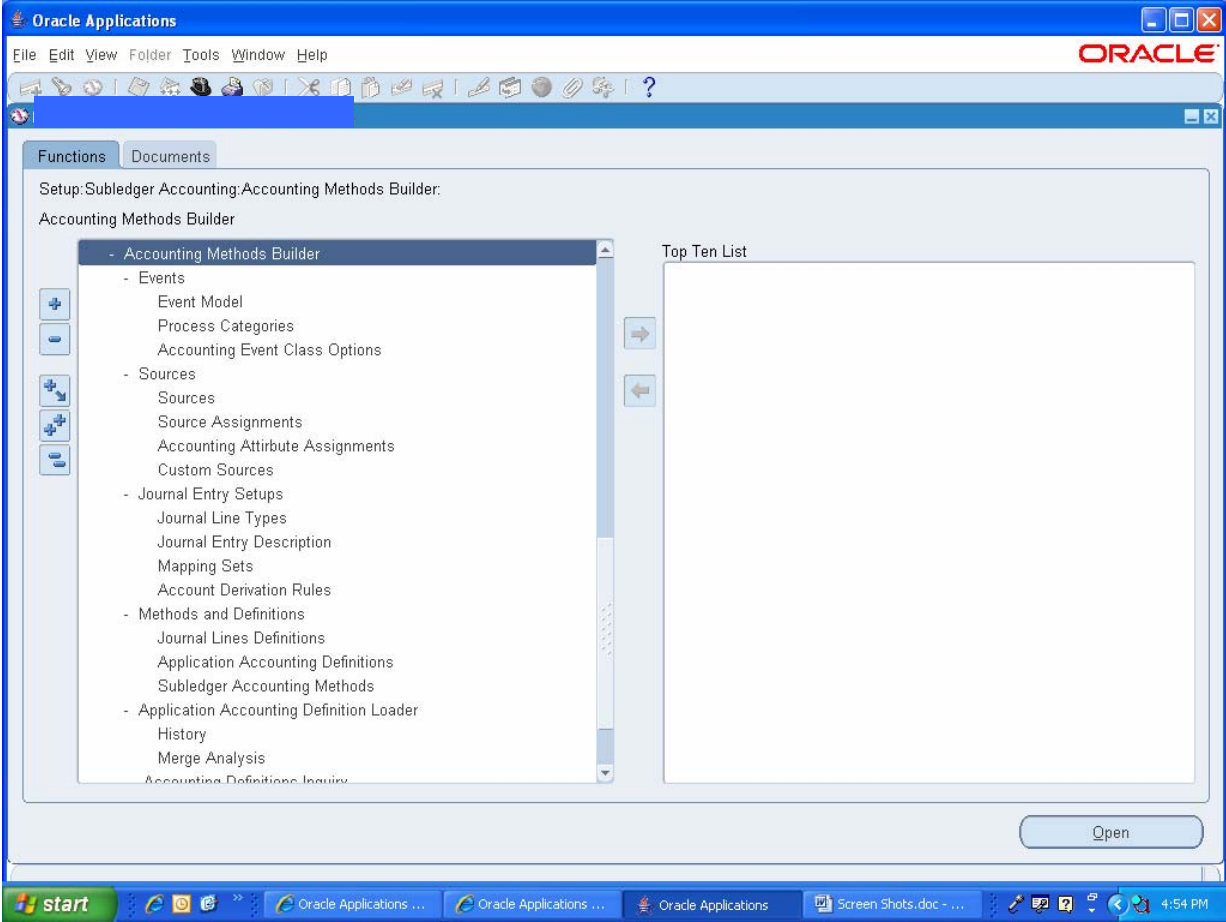
# Evolution of Projects-based Accounting Engines (Cont'd)

- Major Differences With SLA
  - All Subledger Applications Post Journal Entries to SLA instead of directly to General Ledger
  - SLA Posts All Subledger Entries to General Ledger
  - SLA Can Fill In Individual Segments or Entire AFF
  - SLA Can Create Multiple Representations of Each Subledger Transactions

# What Is Subledger Accounting ?

- Standard Accounting Engine for all Subledger Applications
- Intermediate Step Between Subledger Applications and Oracle General Ledger (GL)
- Creates the final accounting for Subledger Journal Entries (JEs) and transfers the accounting to GL
- Stores a complete and balanced Subledger JE in a common model for each “business event” that requires accounting.
- Can create more than one accounting representation for each transaction

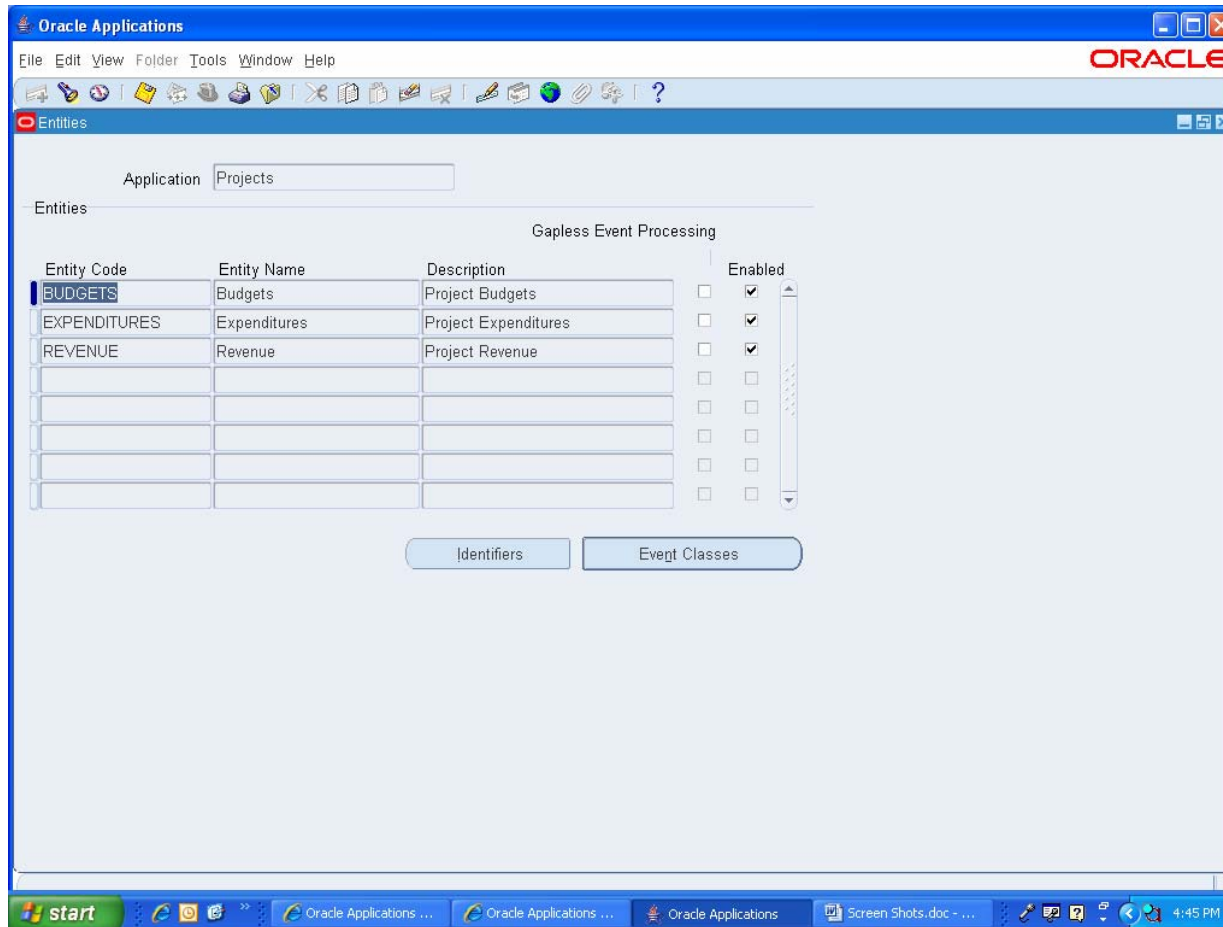
# Accounting Methods Builder (AMB) Menu Path



# SLA Concepts and Definitions

- Accounting Events
  - Transactions that have an accounting impact
  - Projects generates accounting events for the business events it processes
- Event Entities
  - Allow SLA to handle the accounting for similar business events in a consistent manner
  - Projects uses three Event Entities: Expenditures; Revenue; and Budgets

# (Event) Entities Form



# SLA Concepts and Definitions

- Event Type
  - Represents a business operation that you can perform for an Event Class
- Event Class
  - Represents a category of business event for a particular transaction type or document
  - Group Similar Event Types
  - Enable the sharing of Accounting Definitions
  - Provide the lowest level of detail for storing Accounting Definitions



# Process Categories Form

The screenshot shows the Oracle Applications interface for the 'Process Categories' form. The application is set to 'Projects'. The form displays a table of process categories with columns for Process Category Code, Process Category Name, Description, and Enabled status. All categories are currently enabled.

Process Category Code	Process Category Name	Description	Enabled
BORROWED_LENT	Borrowed and Lent	Borrowed and Lent Transactions	<input checked="" type="checkbox"/>
BTC_COST	Burden Cost	Burden Cost transactions	<input checked="" type="checkbox"/>
BUDGET	Budget	Budget baseline	<input checked="" type="checkbox"/>
INVENTORY_COST	Inventory Cost	Inventory Cost transactions	<input checked="" type="checkbox"/>
LABOR_COST	Labor Cost	Labor cost transactions	<input checked="" type="checkbox"/>
MISCELLANEOUS_COST	Miscellaneous Cost	Miscellaneous Cost transactions	<input checked="" type="checkbox"/>
PROVIDER_COST_RECLASS	Provider Cost Reclassification	Provider Cost Reclassification Transa	<input checked="" type="checkbox"/>
REVENUE	Revenue	Project revenue transactions	<input checked="" type="checkbox"/>
SUPPLIER_COST	Supplier Cost	Supplier cost transactions	<input checked="" type="checkbox"/>
TBC_COST	Total Burdened Cost	Total burdened cost transactions	<input checked="" type="checkbox"/>

# Accounting Event Class Options Form – Supplier Cost

Oracle Applications

File Edit View Folder Tools Window Help

Accounting Event Class Options

Application: Projects  
 Entity: Expenditures  
 Event Class: **Supplier Cost**  
 Process Category: Supplier Cost  
 Default Journal Category: Purchase Invoices  
 Transaction View: PA\_XLA\_COST\_V

**Balance Types**

Actual  
 Budget  
 Encumbrance

**Currency Conversion Options**

Calculate Accounted Amounts  
 Calculate Gain or Loss Amounts

User Transaction Identifiers    Objects

Sequence	User Identifier Name	View Column Name
10	Project Name (Number)	PROJECT_NAME_NUM_CONCAT
20	Task Name (Number)	TASK_NAME_NUM_CONCAT
30	Award Name (Number)	AWARD_NAME_NUM_CONCAT
40	Expenditure Type	EXPENDITURE_TYPE
50	Expenditure Type Class	EXPENDITURE_TYPE_CLASS
60	Expenditure Category	EXPENDITURE_CATEGORY
70	Expenditure Item Date	EXPENDITURE_ITEM_DATE
80	Expenditure Organization	EXP_ORGANIZATION_NAME
90	Transaction Source	TRANSACTION_SOURCE

Create and Assign Sources    Validate Assignments

Source Assignments    Accounting Attribute Assignments

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# Accounting Event Class Options Form – Labor Cost

Oracle Applications

File Edit View Folder Tools Window Help

Accounting Event Class Options

Application: Projects  
 Entity: Expenditures  
 Event Class: Labor Cost  
 Process Category: Labor Cost  
 Default Journal Category: Labor Cost  
 Transaction View: PA\_XLA\_COST\_V

**Balance Types**

Actual  
 Budget  
 Encumbrance

**Currency Conversion Options**

Calculate Accounted Amounts  
 Calculate Gain or Loss Amounts

User Transaction Identifiers    Objects

Sequence	User Identifier Name	View Column Name
10	Project Name (Number)	PROJECT_NAME_NUM_CONCAT
20	Task Name (Number)	TASK_NAME_NUM_CONCAT
30	Award Name (Number)	AWARD_NAME_NUM_CONCAT
40	Expenditure Type	EXPENDITURE_TYPE
50	Expenditure Type Class	EXPENDITURE_TYPE_CLASS
60	Expenditure Category	EXPENDITURE_CATEGORY
70	Expenditure Item Date	EXPENDITURE_ITEM_DATE
80	Expenditure Organization	EXP_ORGANIZATION_NAME
90	Transaction Source	TRANSACTION_SOURCE

Create and Assign Sources    Validate Assignments

Source Assignments    Accounting Attribute Assignments

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# SLA Concepts and Definitions

- Event Types and Classes (Cont'd)
  - Predefined Event Classes for the Event Entity “Expenditure” include: Labor Cost; Usage Cost; and Supplier Cost
  - The Event Class “Supplier Cost” is represented by Event Types of “Expense Report Cost Distribution” and “Supplier Cost Distribution”

# Event Classes and Types Form – Supplier Cost

The screenshot shows the Oracle Applications interface for the 'Event Classes and Types' form. The 'Entity Name' is set to 'Expenditures'. The 'Event Classes' section contains a table with the following data:

Event Class Code	Event Class Name	Description	Enabled
SUPPLIER_COST	Supplier Cost	Event class for supplier invoice, expense report, r	<input checked="" type="checkbox"/>
SUPPLIER_COST_ADJ	Supplier Cost Adjustment	Event class for supplier invoice, expense report, r	<input checked="" type="checkbox"/>
TOT_BURDENED_COST	Total Burdened Cost	Event class for total burdened cost transactions	<input checked="" type="checkbox"/>
TOT_BURDENED_COST_A	Total Burdened Cost Adjustm	Event class for total burdened cost adjustment tra	<input checked="" type="checkbox"/>

Below the table is a 'Predecessors' button. The 'Event Types' section contains a table with the following data:

Event Type Code	Event Type Name	Description	Accounting Tax	Enabled
EXP_COST_DIST	Expense Report Cost Distrib	Raw cost distribution for Exper	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SUPP_COST_DIST	Supplier Cost Distribution	Raw cost distributed for Suppli	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>

The Windows taskbar at the bottom shows the Start button, several open applications (Inbox, Internet Explorer, Oracle Applications, Screen Shots), and the system clock at 4:10 PM.

# Event Classes and Types Form – Labor Cost

The screenshot shows the Oracle Applications interface for the 'Event Classes and Types' form. The 'Entity Name' is set to 'Expenditures'. The 'Event Classes' section contains a table with the following data:

Event Class Code	Event Class Name	Description	Enabled
LABOR_COST	Labor Cost	Event class for labor cost transactions	<input checked="" type="checkbox"/>
LABOR_COST_ADJ	Labor Cost Adjustment	Event class for labor cost adjustment transaction	<input checked="" type="checkbox"/>
MISC_COST	Miscellaneous Cost	Event class for miscellaneous cost transactions	<input checked="" type="checkbox"/>
MISC_COST_ADJ	Miscellaneous Cost Adjustm	Event class for miscellaneous cost adjustment tr	<input checked="" type="checkbox"/>

Below the table is a button labeled 'Predecessors'. The 'Event Types' section contains a table with the following data:

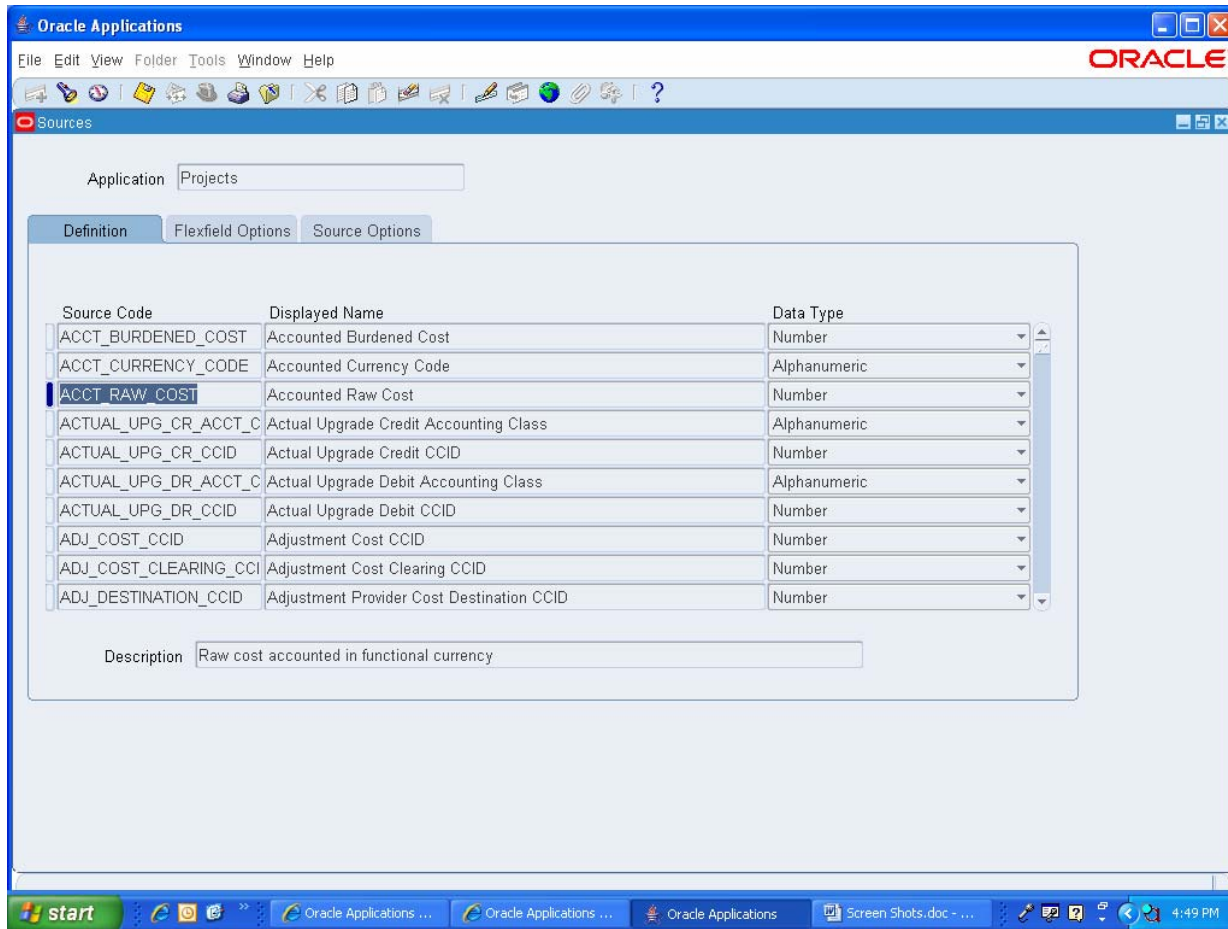
Event Type Code	Event Type Name	Description	Accounting Tax	Enabled
LABOR_COST_DIST	Labor Cost Distribution	Raw cost distributed for Labor t	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/>
			<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>

The Windows taskbar at the bottom shows the Start button, several open applications (Inbox, Internet Explorer, Oracle Applications), and the system clock at 3:52 PM.

# SLA Concepts and Definitions

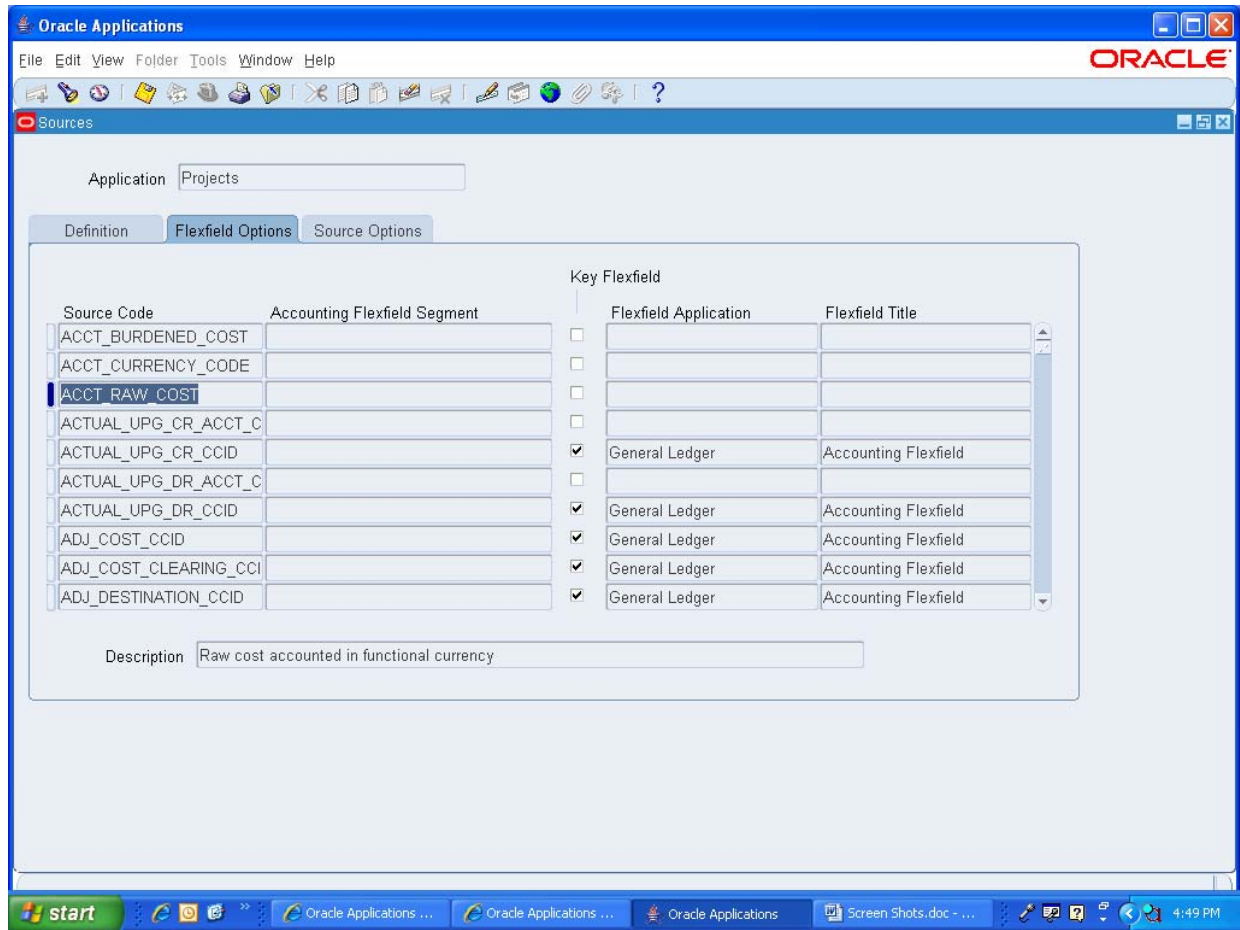
- Sources and Source Assignments
  - Pieces of information SLA uses to determine how to create accounting for an Accounting Events
  - Assigned to either an Event Entity or an Event Class to make them available for creation of Subledger Journal Entries
  - Custom Sources replace SQL Select Functionality in AutoAccounting

# Sources Form – Part 1 of 3





# Sources Form – Part 2 of 3



# Sources Form – Part 3 of 3

The screenshot shows the Oracle Applications interface for the Sources form. The application is set to 'Projects'. The 'Source Options' tab is active, displaying a table of source codes and their configurations. The table includes columns for Source Code, Lookup Application, Lookup Type, Value Set, Translated, Summed, Enabled, and Displayed. The source code 'ACCT\_RAW\_COST' is highlighted. Below the table, the description is 'Raw cost accounted in functional currency'.

Source Code	Lookup Application	Lookup Type	Value Set	Translated	Summed	Enabled	Displayed
ACCT_BURDENED_COST				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ACCT_CURRENCY_CODE				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ACCT_RAW_COST				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ACTUAL_UPG_CR_ACCT_C				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ACTUAL_UPG_CR_CCID				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ACTUAL_UPG_DR_ACCT_C				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ACTUAL_UPG_DR_CCID				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ADJ_COST_CCID				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ADJ_COST_CLEARING_CCI				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ADJ_DESTINATION_CCID				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Description: Raw cost accounted in functional currency

# Custom Sources Form

Oracle Applications

File Edit View Folder Tools Window Help

ORACLE

Custom Sources

Application: Projects

Custom Source Code: [ ]

Custom Source Name: [ ]

Description: [ ]

PL/SQL Function Name: [ ]  Enabled

Return Data Options

Data Type: Alphanumeric

Segment: [ ]  Accounting Flexfield

Lookup Application: [ ] Lookup Type: [ ]

Value Set: [ ]

Parameters

Seq	Type	Name	Source Description
[ ]	[ ]	[ ]	[ ]
[ ]	[ ]	[ ]	[ ]
[ ]	[ ]	[ ]	[ ]

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# Source Assignment Form

Application: Projects  
Event Class: Labor Cost

Source Assignments

Source	Source Description	Extract Object Level
Accounted Burdened Cost	Burdened cost accounted in functional currency	Line
Accounted Raw Cost	Raw cost accounted in functional currency	Line
Actual Upgrade Credit Accounting Class	Accounting class of credit line for nonupgraded t	Line
Actual Upgrade Debit Accounting Class	Accounting class of debit line for nonupgraded t	Line
Adjusted Expenditure Item ID	The identifier of the expenditure item that this e	Header
Adjustment Cost CCID	The identifier of the GL cost account for adjust	Line
Adjustment Cost Clearing CCID	The identifier of the GL liability account for adjuc	Line
Allow Account Override Flag	Indicates if the users can override the CCID. A	Line
Award ID	The system-generated number that uniquely ide	Header
Award Name	Name of the award	Header
Award Number	The number of the award	Header
Award Organization	The system-generated number that uniquely ide	Header

# SLA Concepts and Definitions

- Accounting Attributes
  - Values that the Create Accounting process needs to create Subledger Journal Entries
  - Sources, above, are assigned to Accounting Attributes.

Example: Event Class = Labor Cost; Source = Raw Cost; Attribute = Entered Amount

Result: The Raw Cost Amount from the transaction is assigned to the Entered Amount field in the SLA Journal Entry

# Accounting Attributes Assignment Form

Oracle Applications

File Edit View Folder Tools Window Help

Accounting Attribute Assignments

Application: Projects

Event Class: Labor Cost

Validate Assignments

Accounting Attribute Assignments

Accounting Attribute	Owner	Group	Journal Entry Level	Source	Source Type	Default
Actual Upgrade Debit Conversion	Oracle	Upgrade Actual	Line	Exchange Rate	Standard	<input checked="" type="checkbox"/>
Actual Upgrade Debit Conversion	Oracle	Upgrade Actual	Line	Exchange Rate Type	Standard	<input checked="" type="checkbox"/>
Actual Upgrade Debit Entered Amount	Oracle	Upgrade Actual	Line	Entered Raw Cost	Standard	<input checked="" type="checkbox"/>
Actual Upgrade Debit Entered Currency	Oracle	Upgrade Actual	Line	Entered Currency Code	Standard	<input checked="" type="checkbox"/>
Actual Upgrade Option	Oracle	Upgrade Actual	Line	Use Actuals Upgrade Attributes	Standard	<input checked="" type="checkbox"/>
Conversion Date	Oracle	Ledger Currency	Line	Exchange Rate Date	Standard	<input checked="" type="checkbox"/>
Conversion Rate	Oracle	Ledger Currency	Line	Exchange Rate	Standard	<input checked="" type="checkbox"/>
Conversion Rate Type	Oracle	Ledger Currency	Line	Exchange Rate Type	Standard	<input checked="" type="checkbox"/>
Distribution Type	Oracle	Distribution Identifier	Line	Line Type	Standard	<input checked="" type="checkbox"/>
Entered Amount	Oracle	Entered Currency	Line	Entered Raw Cost	Standard	<input checked="" type="checkbox"/>
Entered Currency Code	Oracle	Entered Currency	Line	Entered Currency Code	Standard	<input checked="" type="checkbox"/>
First Distribution Identifier	Oracle	Distribution Identifier	Line	Expenditure Item ID	Standard	<input checked="" type="checkbox"/>
GL Date	Oracle	GL Date	Header	GL Date	Standard	<input checked="" type="checkbox"/>
Second Distribution Identifier	Oracle	Distribution Identifier	Line	Cost Distribution Line Number	Standard	<input checked="" type="checkbox"/>

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# SLA Concepts and Definitions

- Journal Line Types
  - Determine the characteristics of Subledger Journal Entries (JE) for an Event Class
  - The characteristics are:
    - Actual; Budget; or Encumbrance JE
    - Debit or Credit JE
    - Matching Lines Merged?
    - Transfer to GL in Summary or Detail form

# Journal Line Types Form

Oracle Applications

File Edit View Folder Tools Window Help

ORACLE

Journal Line Types

Application: Projects

Event Class: Labor Cost

Line Type Code: PA\_RAW\_COST

Name: Raw Cost

Description: Raw cost journal line for labor cost transactions

Owner: Oracle

Accounting Class: Cost

Rounding Class: Cost

Enabled

**Options**

Balance Type:  Actual,  Budget,  Encumbrance

Side:  Debit,  Credit,  Gain/Loss

Switch Debit/Credit: Yes

Merge Matching Lines: No

Subledger Gain/Loss: [Dropdown]

Chart of Accounts Transaction: [Dropdown]

Business Flow Method: None

Class: [Dropdown]

**Multiperiod**:  None,  Accrual,  Recognition

**Transfer to GL**:  Summary,  Detail (J)

Condition: [Text Field]

Copy Conditions Accounting Attribute Assignments

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# SLA Concepts and Definitions

- Account Derivation Rules
  - Determine the Accounting Flexfield (AFF) values for Subledger Journal Entries
  - Defined in SLA To Override Seeded Projects Rule
  - Generate either a value for a single AFF segment or the entire AFF
  - Optionally use Mapping Sets

# Account Derivation Rules Form

Oracle Applications

File Edit View Folder Tools Window Help

ORACLE

Account Derivation Rules

Application:

Rule Code:  Owner:

Rule Name:   Enabled

Description:

Chart of Accounts

Transaction:

Accounting:

Output Type

Flexfield

Segment

Value Set

Priorities

Priority	Value Type	Value	Input Source	Segment
10	Source	Cost CCID		
20	Source	Adjustment Cost CCID		

Condition:

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# Mapping Sets Form

Oracle Applications

File Edit View Folder Tools Window Help

ORACLE

Mapping Sets

Mapping Set Code

Mapping Set Name

Description   Enabled

Input

Lookup Application

Lookup Type  Value Set

Output

Accounting Chart of Accounts

Type

Flexfield

Segment

Value Set

Mapping Set Values

Value Type	Input Value	Output Value	Start Date	End Date	Enabled
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input checked="" type="checkbox"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>

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# SLA Concepts and Definitions

- Journal Entry Descriptions (JEDs)
  - Determine both the content and sequence in which elements of the description appear
  - Assigned to headers and lines in Application Accounting Definition
  - Assigned to Journal Headers and Lines by SLA when it creates the draft or final accounting
  - There are no predefined JEDs for Projects

# Journal Entry Descriptions Form

Oracle Applications

File Edit View Folder Tools Window Help

ORACLE

Journal Entry Descriptions

Application: Projects

Journal Description Code: [Yellow field]

Journal Description Name: [Yellow field]

Transaction Chart of Accounts: [White field]

Description: [White field]

Owner: User

Enabled

Priorities

Priority	Journal Entry Description
[White field]	[White field]
[White field]	[White field]
[White field]	[White field]
[White field]	[White field]

Condition: [White field]

Copy Conditions Details

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# SLA Concepts and Definitions

- Journal Line Definitions
  - Group Journal Line Types, Account Derivation Rules, and Journal Entry Descriptions into a complete set of Journal Line Types within an Event Class or Event Type

# Journal Lines Definitions Form

Oracle Applications

File Edit View Folder Tools Window Help

ORACLE

Journal Lines Definitions

Application: Projects  
 Event Class: Labor Cost  
 Definition Code: PA\_STANDARD\_ACCOUNTING  
 Definition Name: Projects Standard Accounting  
 Description: Oracle Projects standard accounting journals

Event Type: All  
 Owner: Oracle  
 Enabled  
 Budgetary Control

**Chart of Accounts**  
 Transaction:  Accounting:

**Line Assignments**

Journal Line Type	Owner	Inherit Description	Line Description	Owner	Active
Raw Cost	Oracle	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input checked="" type="checkbox"/>
Raw Cost Clearing	Oracle	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input checked="" type="checkbox"/>
		<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>

Line Type Line Description Multiperiod Accounting Copy Line Assignment

**Account Derivation Rules**

Segment	Inherit	Rule Name	Owner	Description	Side
All Segments	<input type="checkbox"/>	Cost Account Rule	Oracle	Seeded rule to derive the cost	<input type="text"/>
	<input type="checkbox"/>				
	<input type="checkbox"/>				

Account Derivation Rule Copy Definition

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# SLA Concepts and Definitions

- Application Accounting Definitions (AADs)
  - Collections of setup components for a Subledger application, i.e. Projects, that determine how the SLA program processes Accounting Events to create Subledger and General Ledger Entries
  - Assign Journal Line Definitions to Event Class and Event Type combinations
  - Projects predefines the *Project Standard Accounting* Application Accounting Definition



# Application Accounting Definitions Form

Oracle Applications

File Edit View Folder Tools Window Help

ORACLE

Application Accounting Definitions

Application:

Definition Code:

Owner:

Definition Name:

Version:

Description:

Enabled

Chart of Accounts

Transaction:

Accounting:

Event Class and Event Type Assignments

Event Class	Event Type	Validation Status	Create Accounting	Locked
Borrowed and Lent	All	Valid	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Borrowed and Lent Adjustme	All	Valid	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Budget	All	Valid	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Burden Cost	All	Valid	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Header Assignments

Journal Lines Definition Assignments

Journal Lines Definition Name	Owner	Description
Projects Standard Accounting	Oracle	Oracle Projects standard accounting journals

Journal Line Definition    Validate    Copy

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# SLA Concepts and Definitions

- Subledger Accounting Method
  - A group of common Application Accounting Definitions (AADs) that determines how SLA processes Accounting Events
  - Groups AADs from Subledger Applications such as Projects
  - AADs are assigned to Ledgers (formerly Sets of Books (SOBs))

# Subledger Accounting Methods Form

Oracle Applications

File Edit View Folder Tools Window Help

ORACLE

Subledger Accounting Methods

Method Code: STANDARD\_ACCRUAL      Owner: Oracle

Method Name: Standard Accrual       Enabled

Description: Standard Accrual

Chart of Accounts

Transaction:       Accounting:

Application Accounting Definition Assignments

Application	Name	Owner	Start Date	End Date
Cost Management	Cost Management	Oracle	01-JUN-2001	
Loans	Loans Standard Accrual	Oracle	01-JAN-1990	
Payables	Accrual Basis	Oracle	01-JAN-1951	
Process Manufacturing Fin...	Process Manufacturing Financia	Oracle	19-SEP-2004	
<b>Projects</b>	<b>Projects Standard Accounting</b>	Oracle	01-JAN-1951	
Property Manager	Property Manager Normalized A	Oracle	01-JAN-1951	

Description: Oracle Projects standard accounting definition

Accounting Setup      Application Accounting Definition      Copy

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# Putting It All Together

- AutoAccounting
  1. Define Lookup Sets
  2. Define AutoAccounting Rules
    - Constant; Parameter; SQL Select
  3. Assign Rules to Functions

# Putting It All Together

- Accounting Methods Builder (AMB)
  1. Define Journal Lines Types \*\*
  2. Define Journal Entry Descriptions \*\*
  3. Define Mapping Sets \*
  4. Define Accounting Derivation Rules \*\*
  5. Define Journal Line Definitions \*\*
  6. Define Application Accounting Definitions\*\*

# Putting It All Together

- Accounting Methods Builder (AMB)
  7. Define Subledger Accounting Methods \*\*
  8. Assign Subledger Accounting Methods to Ledger(s)

# Putting It All Together

- Subledger Accounting Methods
  - Assigned to Oracle Ledgers (Formerly Sets of Books)
  - Sets of Books (Obsolete in R12)
    - Currency; Chart of Accounts; and Calendar
  - Ledger
    - Currency; Chart of Accounts; Calendar; and Subledger Accounting Method

# Putting It All Together

- Subledger Accounting Methods
  - The Combination of Subledger Accounting Method and Ledger is called an Accounting Representation
  - Subledger Accounting Method + New/Different Ledger = Additional Accounting Representation
  - Transaction and Accounting Charts of Accounts used in Accounting Methods Builder (AMB)



# Accounting Setups Form – Subledger Applications

**ORACLE Accounting Setup Manager**

Accounting Setups > Accounting Options: Vision Services (USA) >

**Subledger Applications**

Ledger: **Vision Services (USA)**      Currency: **USD**  
 Chart of Accounts: **Services Accounting Flex**      Subledger Accounting Method: **Standard Accrual**  
 Calendar: **Weekly**

[Return to Accounting Options](#)

Application	Update Accounting Options	Update System Options
Assets		
Cash Management		
Cost Management		
Federal Financials		
Financials Common Modules		
Loans		
Payables		
Payroll		
Process Manufacturing Financials		
Projects		

Done      Trusted sites      100%

# Accounting Setups Form – Update Accounting Options:Projs.

The screenshot displays the Oracle Accounting Setup Manager interface within a Windows Internet Explorer browser. The page title is "Update Subledger Options - Windows Internet Explorer". The browser address bar shows the URL: `http://aplzebsdev1.jhuapl.edu:8000/OA_HTML/OA.jsp?OAFunc=XLA_ACCTGOPTIONSPG&applicationId=275&ledgerId=62`. The Oracle logo and "Accounting Setup Manager" are visible at the top. The navigation path is: Accounting Setups > Accounting Options: Vision Services (USA) > Subledger Applications > Update Accounting Options: Projects. The form contains several sections: "Update Accounting Options: Projects" with fields for General Ledger Journal Entry Summarization (Summarize by GL Period), Reversal Method (Switch DR/CR), Rounding Rule (Nearest), and Third Party Merge Accounting Option (None). "Accounting Program Defaults" includes Accounting Program Mode (Final), Accounting Report Level (No Report), Allow Mode Override (Yes), Allow Report Override (Yes), Transfer to GL (Yes), Stop at Error Limit (No), Allow Transfer Override (Yes), Post in GL (No), and Allow Post Override (Yes). "Event Class Options" includes a table for overriding the default journal category for event classes. The Windows taskbar at the bottom shows the Start button, several open applications, and the system clock at 5:15 PM.

**Update Accounting Options: Projects**

\* General Ledger Journal Entry Summarization: Summarize by GL Period

\* Reversal Method: Switch DR/CR

\* Rounding Rule: Nearest

\* Third Party Merge Accounting Option: None

**Accounting Program Defaults**

Set defaults for the accounting program and determine whether they may be overridden when submitting requests.

\* Accounting Program Mode: Final

\* Accounting Report Level: No Report

\* Allow Mode Override: Yes

\* Allow Report Override: Yes

\* Transfer to GL: Yes

\* Stop at Error Limit: No

\* Allow Transfer Override: Yes

Error Limit: [ ]

\* Post in GL: No

\* Allow Post Override: Yes

**Event Class Options**

You may override the default journal category for the event class.

Event Class	Category

# Accounting Setups Form – Event Class Options

\* Post in GL: No

\* Allow Post Override: Yes

### Event Class Options

You may override the default journal category for the event class.

Previous 1-10 Next 10

Event Class	*Category
Budget	Budget
Borrowed and Lent	Borrowed and Lent
Borrowed and Lent Adjustment	Borrowed and Lent
Burden Cost	Burden Cost
Inventory Cost	Inventory
Inventory Cost Adjustment	Inventory
Labor Cost	Labor Cost
Labor Cost Adjustment	Labor Cost
Miscellaneous Cost	Miscellaneous Transaction
Miscellaneous Cost Adjustment	Miscellaneous Transaction

Previous 1-10 Next 10

Cancel Apply

Accounting Setups Legal Entities Close Window Preferences Diagnostics

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Trusted sites 100%

Ledger

=

C.O.A

+

Currency

+

Calendar

+

Subledger Accounting Method

Standard Accrual

Application Accounting Definition

JE Header and Lines

Journal Line Definitions

Journal Entry Descriptions

Journal Line Types

Account Derivation Rules

Mapping Sets

# Functionality Equivalents

FlexBuilder/Account Generator	AutoAccounting	Subledger Accounting
Value Sets/Lookup Sets	Lookup Sets	Mapping Sets
Input Value	Intermediate Value	Input Value
User Defined Parameters	AutoAccounting Rules	Account Derivation Rules
Predefined Parameters/Attribute	Parameter	Source
Assignments to Functions	AutoAccounting Function Transactions	Conditions on Account Derivation Rules
Functions/Item Type	AutoAccounting Functions	Journal Line Types
Parameter Assignments/Process	AutoAccounting Rule Assignment	Journal Lines Definitions: Assign Account Derivation Rules to Journal Line Types

# Processing Changes

- Distribution Process Remain Unchanged – Debit Side
- New: PRC: Generate Cost Accounting Events – Credit Side
- New: PRC: Create Accounting
  - Creates Subledger Journal Entries for All Eligible Events
  - Optionally Post in GL (Only in Final Mode)
- PRC: Transfer JEs to GL (Optional)
- Journal Import (Oracle GL)

# Processing Changes

- PRC: Sweep Transaction Accounting Events
  - Changes the date on unaccounted transaction accounting events to first day of next open period
  - Accommodates the Month-End Closing Process

# Processing Changes

- Post Accounting Process
  - Used to obtain final accounting information from SLA because the accounting that Projects creates using AA may not be the same as the final accounting that SLA transfers to GL
  - Audit trail; Reversing Entries from AP; PO; and INV
  - Adjustments from within Projects for splits, transfers, and other changes.



# Upgrading Existing Installations

- Options
  - Continue To Use Existing AutoAccounting/ Account Generator (AA/AG) As Is
    - SLA uses default AFF values generated by AA/AG
  - Define Alternate Accounting Rules in SLA
    - Minimal AA/AG still required (use defaults for all AFF Segments) to provide default values
    - SLA overwrites default AFF values provided by AA/AG
  - Hybrid Approach
    - Use existing AA/AG at point of upgrade
    - Evaluate benefits of SLA features
    - Migrate to SLA when and if beneficial

# Planning New Implementations

- Significant Portion of Implementation
  - Approximately 25-30% of total (based on past experience)
    - Analysis – 15%
    - Design – 35%
    - Development – 35%
    - Testing – 15%
  - Implementation Resource Experience is Critical
- Design in Parallel with Remaining Tasks
- Understand Inputs, Business Rules, and Required Results
- Understand All Accounting Transactions
- Test All Possible Scenarios (automate if possible)
- Document For Current and Future Users
  - Business Requirements and Associated Rules
  - Custom Sources including PL/SQL Logic
  - Maintenance Requirements

# Suggested Resources

- Oracle Projects Implementation Guide - MetaLink Document Number (R 12.04)
  - Section G – AutoAccounting, the Account Generator, and Subledger Accounting
  - Pages 3 – 40-47 – Subledger Accounting for Costs
  - Pages 4 – 55-58 – Subledger Accounting for Revenue and Billing
- Oracle Projects Fundamentals – MetaLink Document Number B25617-02 (R12.04)
  - Pages 12 – 9-33 – Integrating With Subledger Accounting/Oracle GL
  - Appendix A – Pre-Defined Setup for Oracle Subledger Accounting

# Suggested Resources (Cont'd)

- Subledger Accounting Implementation Guide – MetaLink Document Number B13984-02 (R12.04)
- Oracle Subledger Accounting Documentation Resources - MetaLink Document Number 396829.1
- XLA – Common Accounting Drilldown for Project Accounting Transaction Categories Troubleshooting Guide – MetaLink Document Number 406204.1

# Suggested Papers and Presentations

- Understanding Oracle Projects' (Project Accounting's) AutoAccounting and Flexbuilder Functions – Edward Charity, Jr - Spring 1997 OAUG
- Understanding AutoAccounting for Projects: A Step by Step Approach – Mark Biven – Spring 2002 OAUG
- How Does AutoAccounting Work/AutoAccounting – Setup and Prerequisites – Suzana Ferrari - 2003/2004 OAUG
- How to Use Account Generator for Project-Related Transactions – Marian Crkon 2007 OAUG

# Suggested Open World 2007 SLA Presentations

- Bean Counting Gets an Overhaul: Oracle EBS Accounting Architecture in R12 – S291195
- Oracle EBS R12: Accounting Around the World in 80 Ways – S291287
- Using SLA to Address Global Accounting Requirements – S291198
- Making Rules Not War: Making Nice with the Bean Counters – S290980

# Suggested Collaborate 08 SLA Presentations

- TBD
- TBD
- TBD
- TBD

# Conclusion

- Subledger Accounting Concepts very similar to AutoAccounting/Account Generator
- Concepts Applicable to All Subledger Applications
- Minimal Requirements for Straight Forward Upgrade
- Careful Planning and Resource Dedication Essential for Successful New Implementation
- AutoAccounting/Account Generator Will Eventually Be Phased Out
- SLA will be embedded in Fusion



Questions?



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