Oracle® Financials Accounting Hub Integration Pack for PeopleSoft General Ledger 2.5 - Implementation Guide

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Contents

Oracle Financial Accounting Hub Integration Pack for PeopleSoft General Ledger 2.5 - Implementation Guide Preface

This preface discusses:

- Oracle Application Integration Architecture - Foundation Pack: Core Infrastructure Components Guide
- The Oracle Application Integration Architecture - Foundation Pack: Concepts and Technologies Guide
- Oracle Application Integration Architecture - Foundation Pack: Integration Developer's Guide
- Oracle Application Integration Architecture Process Integration Packs
- Additional resources

Oracle Application Integration Architecture - Foundation Pack: Core Infrastructure Components Guide

The *Oracle Application Integration Architecture - Foundation Pack: Core Infrastructure Components Guide* provides conceptual, setup, and usage information for the following Core Infrastructure Components:

- The Business Service Repository (BSR).
- The Composite Application Validation System (CAVS).
- Error handling and logging.
- The Diagnostics Framework.

Oracle Application Integration Architecture Foundation Pack Concepts and Technologies Guide

The *Oracle Application Integration Architecture - Foundation Pack: Concepts and Technologies Guide* is a companion volume to the *Oracle Application Integration Architecture - Foundation Pack: Core Infrastructure Components Guide* and *Oracle Application Integration Architecture - Foundation Pack: Integration Developer's Guide.* The *Oracle Application Integration Architecture - Foundation Pack: Concepts and Technologies Guide* provides definitions of fundamental Oracle Application Integration Architecture (AIA) concepts and discusses:

- Oracle AIA.
- Enterprise business objects and enterprise business messages.
- Enterprise business services.
- Application business connector services.
- Interaction patterns.
- Extensibility.
- Versioning.
- Business processes.
- Batch processing.
- Infrastructure services.
- Security

Oracle Application Integration Architecture - Foundation Pack: Integration Developer's Guide

The *Oracle Application Integration Architecture - Foundation Pack: Integration Developer's Guide* is a companion volume to *Oracle Application Integration Architecture - Foundation Pack: Concepts and Technologies Guide* and *Oracle Application Integration Architecture - Foundation Pack: Core Infrastructure Components Guide.*

The *Oracle Application Integration Architecture - Foundation Pack: Integration Developer's Guide* discusses how to:

- Create an integration scenario.
- Define business service patterns.
- Design and develop enterprise business services.
- Design and develop enterprise business flows.
- Design and construct application business connector services.
- Work with message transformation, enrichment, and configuration.
- Develop custom xpath functions.
- Design and construct JMS Adapter services.
- Work with enterprise message headers.
- Work with message routing.
- Work with transactions.
- Develop Oracle AIA services to work with the Composite Application Validation System (CAVS).

- Configure Oracle AIA processes to be eligible for error handling and logging.
- Extend enterprise business objects.

In addition, this book provides, Application Integration Architecture naming standards.

Oracle Application Integration Architecture Process Integration Packs

A process integration pack (PIP) is a prebuilt set of integrated orchestration flows, application integration logic, and extensible enterprise business objects and services required to manage the state and execution of a defined set of activities or tasks between specific Oracle applications associated with a given process. A PIP provides everything you need to deploy a selected integrated business process area. The PIP product offering is suited to those customers seeking to rapidly implement a discreet business process.

A partial PIP is the same prebuilt set of integrated flows and objects, but only up to the point of a target subscription application. A partial PIP enables you to custom build the interface from the Oracle business process applications to the subscription application of your choice whether it is a third-party non-Oracle application or another Oracle application.

Additional Resources

The following resources are available from My Oracle Support (https://metalink.oracle.com/):

- Installation Guide
- Documentation Updates
- Release Notes
- Known issues, workarounds, and current list of patches

Chapter 1: Understanding the Process Integration for Financials Accounting Hub to PeopleSoft General Ledger

This chapter provides an overview of the integration of Financials Accounting Hub to PeopleSoft General Ledger (GL) PIP and discusses:

- Common terms.
- Prerequisites and considerations.

Recommendations, clarifications, and constraints.

Financials Accounting Hub to PeopleSoft GL Integration Overview

The Process Integration for Financials Accounting Hub to PeopleSoft GL provides centralized accounting services to Oracle customers for non-Oracle transaction systems. Financials Accounting Hub provides a centralized, rule-based accounting engine that performs accounting for events that are created by the non-Oracle source transaction systems. As part of Oracle E-Business Suite, Financials Accounting Hub is tightly integrated with Oracle General Ledger and is designed to use the accounting structures defined in E-Business Suite to post the subledger accounting entries.

Note: Financials Accounting Hub (FAH) is formerly known as Financial Services Accounting Hub (FSAH). Throughout this document are references to FSAH, primarily with respect to database objects that were created with the original product name.

Key Benefits

This Process Integration Pack (PIP):

- Provides a canonical layer that enables PeopleSoft GL to consume accounting entries from Financials Accounting Hub and simplify integration of legacy systems.
- Enables upgrades and allows the integration to remain synchronized with new releases of the edge applications.
- Reduces total cost of ownership for all parties.

Integration Points

The Financials Accounting Hub to PeopleSoft GL integration uses integration points to publish and subscribe data and web services to expose services and service operations for applications that do not share the same financials database.

The Process Integration for Financials Accounting Hub to PeopleSoft GL delivers these integration points:

- Synchronization and validation of reference data from PeopleSoft to Financials Accounting Hub, such as currency exchange rates, chart of account values, ChartField combinations, and accounting period statuses.

Accounting entry integration point

  - Populate the accounting entry table in PeopleSoft GL with subledger accounting entries from Financials Accounting Hub.

- Financials Accounting Hub Reversal from PeopleSoft Journal Delete

  - Correct accounting entry transactions that enter PeopleSoft GL with erroneous information.

- Drill back to source Financials Accounting Hub entries

  - Drill back from PeopleSoft GL journal entries to subledger journals in Financials Accounting Hub.

Common Terms

This table defines commonly used terms in the Financials Accounting Hub to PeopleSoft GL integration:

Term	Definition
ABCS	Application Business Connector Service
ABM	Application Business Message
ABO	Application Business Object
AIA	Application Integration Architecture
Account	ChartField that identifies the nature of a transaction for corporate accounts.
Accounting Date	Date for accounting entries for an activity.
Accounting Lines, Accounting Entries and Journal Entries	Accounting lines are created from source transactions and reside within Financials Accounting Hub until they are transformed into accounting entries in the accounting entry staging record (PS_FSAH_ACTG_LN). This is the interface record that is used to create the journal entries (through Journal Generator) that reside in PeopleSoft General Ledger (GL).
BPEL	Business Process Execution Language
Business Unit (PeopleSoft)	A PeopleSoft GL business unit represents a reporting entity, a company, or a line of business that generally maintains its own balanced set of books. PeopleSoft GL stores transactions by business unit.
Business Unit/Ledger Group	Combination of functions or PeopleSoft structural components that provide customers the ability to identify an entity and a financial set of books.
Canonical Data Model	The Oracle Application Integration Architecture (AIA) introduces a set of generic data structures called enterprise business objects (EBOs). They are based on the

Term	Definition
	canonical data model. The business integration processes work only on EBOs. This approach allows the cross-industry application processes to be agnostic of participating applications. The model is a composite of application data model business objects and eliminates the need to map data from different applications directly to each other. EBOs contain components that satisfy the requirements of business objects from the target application data models.
Combination Editing	A centralized function within PeopleSoft Enterprise Financials that allows customers to validate a combination of ChartField or segment values in financial activity at the source to alleviate the reconciliation issues in GL at the back end.
EBM	Enterprise Business Message - AIA artifact
EBO	Enterprise Business Object - AIA artifact
EBS	Enterprise Business Service - AIA artifact
EBiz	Oracle E-Business Suite for Financials
Effective Date	The date on which a table row becomes effective; the date that an action begins. For example, the General Ledger Account page contains Effective Date and is used in conjunction with Status to determine on which date the Account is activated or inactivated. This date also determines when you can view and change information. Pages or panels and batch processes that use the information use the current row.
FAH	Financials Accounting Hub (formerly, Financial Services Accounting Hub (FSAH))
FMW	Fusion Middleware
FSAH	Financial Services Accounting Hub is the predecessor name of the product, Financials Accounting Hub (FAH). The FSAH code still exists for some database objects related to the Financials Accounting Hub.
Financials Accounting Hub Journal	A journal within Financials Accounting Hub is not the same as a PSFT GL journal. While the Oracle E-Business Suite documentation may refer to transactions in Financials Accounting Hub as journals, from a PeopleSoft GL perspective they are accounting entries.
ESB	Enterprise Service Bus
GAAP	Generally Accepted Accounting Principles
GL	General Ledger
Journal	Refers to journals within PeopleSoft GL after running the Journal Generator process for subsystem, imported, or batch entries.
Journal Generator	Journal Generator is the PSFT engine that transforms accounting entries from the PS_FSAH_ACTG_LN staging record into journal entries within PSFT GL. Journal Generator provides a setup page where the mappings of Financials Accounting Hub segment to PSFT ChartField are defined and used in transforming segments to ChartFields during its execution.
ODI	Oracle Data Integrator (ODI) is the vehicle through which transactions are extracted from Financials Accounting Hub, transformed, and transported to the accounting entry table within PeopleSoft GL.
PIP	Process Integration Pack

Term	Definition
PSFT	Oracle PeopleSoft
Segments (E-Business Suite Accounting FlexField Segments)	Accounting FlexField segments (referred to as segments) are fields within the E-Business Suite accounting structure. They are the eBiz equivalent to PeopleSoft ChartFields. Segments, just as ChartFields, are used to categorize financial or statistical data to record transactions on ledgers or subledgers for the ultimate purpose of meeting reporting requirements. Segments can be fields such as Company, Department, Account, Sub Account, and so on.
SetID	Component of PSFT architecture that enables customers to share data across entities and align certain static data to specific entities. Static data such as calendars can be globally shared among entities; however, accounts for different countries, such as in EMEA, can be specifically aligned. An identification code that represents a set of control table information or TableSets. A TableSet is a group of tables (records) necessary to define your company's structure and processing options.
SLA	Subledger Accounting
Source Transactions	Source transactions are accounting transactions from the non-Oracle source systems.
SOA	Oracle's Service Oriented Architecture
SOX	Sarbanes-Oxley Act. U.S. regulatory requirements over the control and security of financial reporting systems. Other countries have similar regulations, for example, JSOX in Japan and Industry Business Practice in the UK.

Prerequisites and Considerations

This section discusses prerequisites and considerations you should review before implementing the Financials Accounting Hub to PeopleSoft GL PIP:

Prerequisites

Complete these prerequisites for the implementation of the Financials Accounting Hub to PeopleSoft GL PIP:

- All initial setup tasks must be completed. See Setting up PeopleSoft for the Financials Accounting Hub to PeopleSoft GL Integration for the setup tasks that are specific to this PIP. This section includes references to complete documentation of PeopleSoft setup.
- E-Business Suite must be installed and its initial setup tasks completed. To view the list of initial setup tasks for E-Business Suite and Financials Accounting Hub, see Setting Up E-Business Suite and Financials Accounting Hub. This section includes references to complete documentation of E-Business Suite and Financials Accounting Hub setup.

For more information, see Oracle General Ledger Implementation Guide and Oracle Financial Services Accounting Hub Implementation Guide.

- This integration must be built using the AIA and EBOs based on a Canonical Data Model.

- ODI must be installed and configured (10.1.3.5.3). See Configuring Oracle Data Integrator.
- For PeopleSoft GL 8.9 or 9.0 the PeopleTools release must be 8.49.19 or later.
- For PeopleSoft GL 9.1 the PeopleTools release must be 8.50.0 or later.
- Integration Broker must be configured for the PSFT_XOUTBND node.
- Web service end-points and other routing properties of the corresponding web services must be configured in the AIA integration.
- Transaction timeout values (for example, 3600) must be set for all processes appropriately based on the amount of data to be synchronized. This setup prevents the transaction from timing-out while interacting with the participating application for high volumes of data.

This setup should be done in these locations:

1. $SOA_HOME/bpel/domains/default/config/domain.xml - change the field syncMaxWaitTime.
2. $SOA_HOME/j2ee/oc4j_soa/config/transaction-manager.xml - change the field transaction-timeout.
3. $SOA_HOME/j2ee/oc4j_soa/application-deployments/orabpel/ejb_ob_engine/orion-ejb-jar.xml - change all “transaction-timeout” values. There will be four occurrences.
4. $SOA_HOME/integration/esb/config/esb_config.ini - change xa_timeout & jms_receive_timeout values.

Considerations

Consider the following differences when mapping GL setup between PeopleSoft GL and Financials Accounting Hub:

- PeopleSoft uses trees to manage ChartField (COA) structures, whereas E-Business Suite uses an Accounting FlexField segment structure. E-Business Suite can create hierarchies on COA values by designating a certain value to be the parent of another.
- PeopleSoft allows sharing of information using setID and business unit, whereas E-Business Suite can share Value Set definitions across COA structures, which are associated with ledgers.

For more information, see ChartField data mapping details in Setting Up PeopleSoft for the Financials Accounting Hub to PeopleSoft GL Integration.

- E-Business Suite COA values can each have an Enabled flag and an active From/To date range, but these values are different from the PeopleSoft concept of Active or Inactive status and multiple effective-dated rows. This difference makes the mapping of future-dated status to Financials Accounting Hub incompatible.

Financials Accounting Hub may be generating large accounting data volumes provided by numerous source system transactions on a daily basis. Consider the most efficient approach to synchronize the foundational data within the participating applications that are involved in an execution of a business process. Many options are available for handling the synchronization requirements between source and use applications. The best approach

allows for applications to be abstracted from a specific implementation of other application products and versions, while providing for scalability and supportability.

- Oracle GL does not use the ledger group concept. PeopleSoft ledgers that are grouped in the same ledger group (multibook) are represented in Financials Accounting Hub as separate ledgers. Use the E-Business Suite primary ledger and the associated reporting ledgers (within the context of a PeopleSoft business unit) to map to PeopleSoft multibook ledgers.

Recommendations, Clarifications, and Constraints

Recommendations, clarifications and constraints that apply to the Oracle Financials Accounting Hub Integration Pack for PeopleSoft General Ledger are specified below, which you need to take into account when implementing this PIP and considering the multi-GAAP options and approach.

Recommendations and clarifications for synchronization and validation of reference data.

Constraints for synchronization and validation of reference data.

Recommendations and clarifications for accounting entry integration from Oracle Financials Accounting Hub to PeopleSoft GL.

Constraints for accounting entry integration from Oracle Financials Accounting Hub to PeopleSoft GL.

Recommendations and clarifications for Oracle Financials Accounting Hub reversal from PeopleSoft Journal Delete.

Constraints for Oracle Financials Accounting Hub reversal from PeopleSoft Journal Delete.

Recommendations and clarifications for drillback from PeopleSoft GL to Oracle Financials Accounting Hub.

Recommendations and Clarifications for Synchronization and Validation of Reference Data

Recommendations and clarifications for synchronization and validation of reference data:

1. PeopleSoft General Ledger is the book of record.
2. Create shells in Oracle General Ledger that replicate the basic structure of the PeopleSoft GL. These shells are used to hold the setup information. Standard Oracle GL functionality is used to complete this process.

For more information, see Setting Up E-Business Suite and Financials Accounting Hub.

3. An E-Business Suite ledger is equivalent to a PeopleSoft GL ledger (ledger within a ledger group within a business unit). This allows for opening and closing of periods at the business unit level.
4. Create a mirror image of the PeopleSoft ChartField structure using the E-Business Suite key Accounting FlexField.

5. PeopleSoft setID assignments within TableSet controls of ChartFields by business unit should not be changed. Although it is possible to change Value Sets in Oracle Financials Accounting Hub and setIDs in PeopleSoft, it creates reporting difficulties and synchronization problems.
6. Do not delete or modify an effective-dated row in PeopleSoft (for example, ChartField values or market rates). To inactivate a value, create a new effective-dated row; otherwise, a deletion or modification may cause problems with synchronization of history. If a delete is executed, it may be necessary to manually synchronize changes or perform a full synchronization.
7. PeopleSoft interprets the combo edit rules to provide a listing of valid accounts per ledger for a business unit.
8. Do not manually add account combinations to the Oracle Financials Accounting Hub account tables.
9. PeopleSoft delivers 16 active ChartFields and four additional inactive ChartFields that can be activated. Oracle Financials Accounting Hub supports a 30-segment structure. Additional PeopleSoft ChartFields can be added through the PeopleSoft ChartField Configuration; however this would require a customization of the transformation in the accounting entry bulk transaction flow. Additionally, new messages for synchronization would need to be created.
10. If the ChartField Configuration Utility has been run prior to the application of the PIP, then additional steps will need to be taken to ensure that the previous configurations are applied to the new or modified objects contained in the PIP.
11. After Oracle Financials Accounting Hub accounting entries have been transferred to PeopleSoft GL, revaluations are performed in PeopleSoft GL, typically as part of month end activities. Alternatively, pre-processor systems must perform revaluations prior to integrating events and amounts to Oracle Financials Accounting Hub for accounting entry generation (for instance banking valuations).
12. Oracle Financials Accounting Hub will continue to store conversion rate information on detailed journals.
13. Currency codes and currency rate types are manually loaded in Oracle Financials Accounting Hub during implementation.
14. After the initial full synchronization of currency exchange rates, which is available for submission as a report program, all changes for currency exchange rates are automatically synchronized on an ongoing basis.

The following data elements are manually synchronized and maintained separately in each application:

Currency codes (e.g. USD) will be the same in both PeopleSoft GL and Oracle Financials Accounting Hub. The list of valid currencies will be maintained separately in each application and are manually synchronized.

Calendars are manually created and maintained in each application using consistent naming conventions. Calendar values (number of periods and period ranges) must be the same.

E-Business Suite ledgers and PeopleSoft business units, ledgers and ledger groups are maintained manually on both systems.

Constraints for Synchronization and Validation of Reference Data

Constraints for synchronization and validation of reference data:

1. Implementation of this PIP is restricted to one instance of each of the applications e.g. one instance of Oracle Financials Accounting Hub and one instance of PeopleSoft GL.
2. For this integration, E-Business Suite has certified English as the base language.
3. There can only be enforcement of the most recent effective date ranges. Oracle Financials Accounting Hub does not use multiple effective date rows or versions for the same chart of accounts.
4. An E-Business Suite Value Set is mapped to a PeopleSoft combination of setID and ChartField. If multi-GAAP ledgers are set up in Oracle Financials Accounting Hub, the segment value sets must be the same across these ledgers.
5. Statistical account functionality is not supported by this integration. Statistical accounts from PeopleSoft are merely transferred to Oracle Financials Accounting Hub with a null account type and stored as informational data only.
6. PeopleSoft ChartFields are 30 characters in length. Oracle Financials Accounting Hub supports 25 characters for segments. Therefore, the segment length for the integration is 25 characters.
7. The currency amounts precision in Oracle Financials Accounting Hub must be set up to match the PeopleSoft Financials format (23 digits and 3 decimal points).
8. PeopleSoft Enterprise General Ledger supports multiple calendars, so there could be separate calendars for actuals, for budget and forecast activity, and for special reporting or transitional needs. Only one calendar can be active for a ledger at a given time. Both PeopleSoft GL and Oracle Financials Accounting Hub will use a single calendar.
9. Once a calendar is established, switching the calendar is not supported in this PIP.
10. Accounting periods must be the same in PeopleSoft GL and Oracle Financials Accounting Hub with identical start and end dates.
11. Secondary ledgers are not supported by Financials Accounting Hub for this integration.
12. If difference between the from date and to _date for the currency exchange rates is more than one year on the PeopleSoft side, then the customer needs to make sure that such dates fixed in PeopleSoft before running the full currency sync-up.
13. As stated under Recommendations and Clarifications for Synchronization and Validation of Reference Data, it is recommended that customers not update the historic rates. If the historic rates are updated, then you will need to perform a PeopleSoft full synch, (All Date Publish) again to synchronize the changed history.

For more information, see Using the ChartField Configuration Utility with this Integration.

14. The BPELvalidation is disabled when the PIP is delivered and should not be enabled.

Recommendations and Clarifications for Accounting Entry Integration from Oracle Financials Accounting Hub to PeopleSoft GL

Recommendations and clarifications for accounting entry integration from Oracle Financials Accounting Hub to PeopleSoft GL:

1. Oracle Financials Accounting Hub sends unsummarized accounting entries to PeopleSoft. PeopleSoft Journal Generator (JG) then summarizes the accounting entries as defined within the Journal Generator Accounting Entry Definition and Journal GeneratorTemplate when creating the PeopleSoft GL journal entries.
2. All GL journals are created, posted and unposted from PeopleSoft GL.
3. Select Journal Generator options to determine whether to suspense, process, roll periods forward or raise exceptions. Chart of account summarization occurs within Journal Generator in PeopleSoft GL.
4. The Journal Generator process can be invoked manually or automatically within PeopleSoft GL. This decision is made during the initial implementation process and is not part of this design.
5. Non-postable accounts that are used for roll ups during financial reporting are not to be exported to Oracle Financials Accounting Hub. They are used strictly for financial reporting within PeopleSoft GL.
6. Oracle Financials Accounting Hub subledger journals are not posted to Oracle GL in order to support this integration.
7. PeopleSoft Subsystems should integrate directly with PeopleSoft GL and not integrate to Oracle Financials Accounting Hub.

Constraints for Accounting Entry Integration from Oracle Financials Accounting Hub to PeopleSoft GL

Constraints for accounting entry integration from Oracle Financials Accounting Hub to PeopleSoft GL:

1. This PIP has a dependency on a pre-defined data mapping between the Oracle Financials Accounting Hub and the PeopleSoft Accounting Entry table. This data mapping includes a required transformation and application of business rules to ensure data integrity in PeopleSoft GL.
2. The integration design assumes that the master data synchronization as well as all setup and configuration has been completed before pushing accounting entries through.
3. Create accounting lines to PeopleSoft through a regular Oracle Financials Accounting Hub batch process rather than on a per-document basis. Otherwise, the Create Accounting program does not create a business event and therefore the integration of accounting entries between Oracle Financials Accounting Hub to PeopleSoft GL will not occur.
4. When using the PeopleSoft integration, the Oracle Financials Accounting Hub summarization options are set to “No Summarization” and the summarization process is disabled.
5. Accounting entries without errors will not be loaded twice into PeopleSoft GL because once the journals are created, the Distribution Status field changes. Therefore, it is not possible to create new journals for the same set of accounting entries unless the journals are deleted. The deletion of journals must be executed in PeopleSoft GL.

6. Sales and use tax accounting information will be passed as part of the accounting entries between Oracle Financials Accounting Hub and PeopleSoft GL; however, integration of tax rates is not supported.
7. VAT will be calculated as needed by the source transaction systems prior to integrating data into Oracle Financials Accounting Hub. PeopleSoft Journal Generator will not recalculate VAT but VAT will be passed as part of the accounting entry.
8. Adjusting period accounting entries are not created in Oracle Financials Accounting Hub. Adjusting period journals must be booked directly in PeopleSoft GL.

Recommendations and Clarifications for Oracle Financials Accounting Hub Reversal from PeopleSoft Journal Delete

Recommendations and clarifications for Oracle Financials Accounting Hub reversal from PeopleSoft Journal Delete:

1. The Oracle Financials Accounting Hub system is notified automatically if a GL journal that was sourced from Oracle Financials Accounting Hub is deleted within PeopleSoft GL.
2. The deletion of journals from PeopleSoft GL is a manual process.
3. If the Oracle Financials Accounting Hub accounting lines are summarized into two PeopleSoft GL journals as dictated by the Journal Generator template, deletion of either one of the journals, for whatever reason, reverses all of the accounting lines pertaining to both of the journals.

For more information, see Synchronize GL Journal Delete with Financials Accounting Hub Entry Process Flow.

Constraints for Oracle Financials Accounting Hub Reversal from PeopleSoft Journal Delete

Journals sourced from Oracle Financials Accounting Hub cannot be unposted from Oracle Financials Accounting Hub.

Recommendations and Clarifications for Drillback from PeopleSoft GL to Oracle Financials Accounting Hub

Recommendations and clarifications for drillback from PSGL to Oracle Financials Accounting Hub:

1. PeopleSoft GL provides drillback to Oracle Financials Accounting Hub subledger accounting journals via the new FAH Accounting Entry inquiry window in PeopleSoft GL. It is also possible to drill back to the source systems from the Oracle Financials Accounting Hub accounting lines if integration between the source systems and Oracle Financials Accounting Hub is implemented.
2. This is a process to research source transactions.
3. Security access is enforced on drillback.

For more information, see Setting up E-Business Suite GL, Enable User Drillback from PeopleSoft.

Chapter 2: Describing the Process Integration for Financials Accounting Hub to PeopleSoft GL PIP

This chapter provides an overview of the Financials Accounting Hub to PeopleSoft GL integration and discusses:

- Application interfaces.
- Core AIA components.
- Domain Value Maps (DVMs) used in the Financials Accounting Hub to PeopleSoft GL integration.
- Financials Accounting Hub to PeopleSoft GL-specific components.

Financials Accounting Hub to PeopleSoft GL Process Flow Overview

The Financials Accounting Hub provides a repository for accounting results from diverse source systems and enables analytical functionality. The Financials Accounting Hub rule-based accounting engine provides analytics and regulatory reporting for events created by source transaction systems such as deposit origination activity, credit card processing and claims systems. As part of Oracle's E-Business Suite, Financials Accounting Hub is natively integrated with Oracle General Ledger and SLA.

For this integration, the PeopleSoft GL is the master repository for all summarized financial activity for purposes of external and GAAP reporting. As such, it is also the source for valid reference data (control data) such as accounting ledgers, period statuses, currency exchange rates, chart of account values, and valid ChartField combinations.

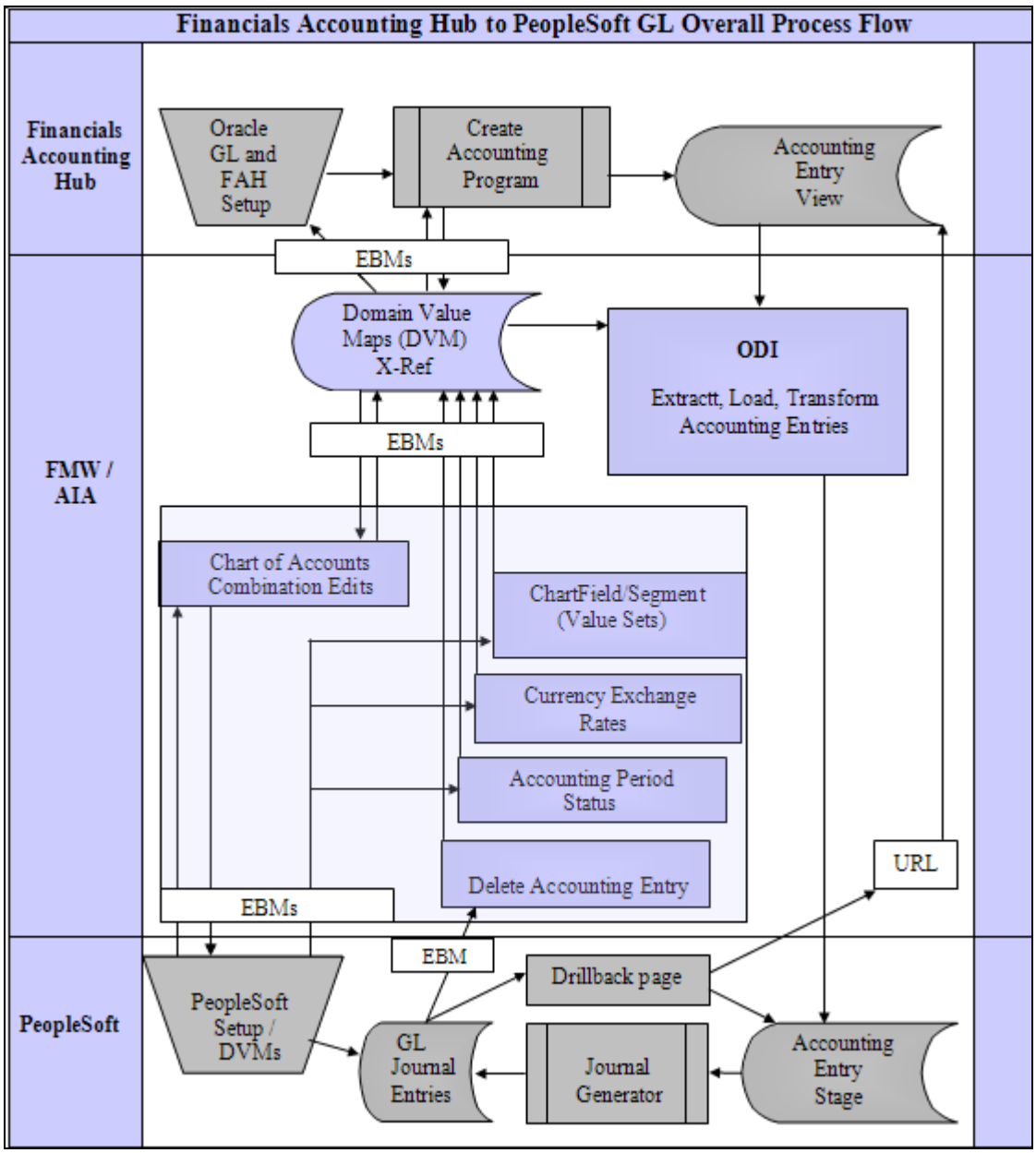
This integration is not a point-to-point integration between Financials Accounting Hub and PeopleSoft GL, with the exception of the entries that are processed through ODI and the drill back functionality from PeopleSoft GL. An AIA layer (FMW) serves as an intermediate layer of application between Financials Accounting Hub and PeopleSoft GL. As part of the integration, PeopleSoft GL sends reference data information through the AIA layer, and Financials Accounting Hub sends accounting entries through ODI to PeopleSoft GL for posting to the master repository. The AIA layer performs message filtering, message transformation, and message routing.

The Process Integration for Financials Accounting Hub (E-Business Suite) to PeopleSoft GL delivers components for publishing and validating the following:

- Services for synchronization and validation of reference data between Financials Accounting Hub and PeopleSoft GL. These services synchronize accounting period status, currency exchange rates, and chart of accounts values. Services also enable combination edit data validation by PeopleSoft during the Financials Accounting Hub Create Accounting process.
- Solution for transferring accounting entries from Financials Accounting Hub to PeopleSoft using the extract, load, and transform (ELT) tool, ODI.

- Services for automatic reversal of Financials Accounting Hub entries after PeopleSoft journal delete.
- Solution for enabling drillback from PeopleSoft GL journals to the source data in Financials Accounting Hub.

This diagram shows the overall flow of the Financials Accounting Hub to PeopleSoft GL process integration:



Overall process flow for Financials Accounting Hub to PeopleSoft GL PIP

The source systems process business transactions and create accounting events in the Financials Accounting Hub. The Financials Accounting Hub Create Accounting program creates accounting lines based on the rules that are defined within Financials Accounting Hub. After final accounting is complete, the Financials Accounting Hub accounting lines await polling for processing to PeopleSoft GL.

The Financials Accounting Hub to PeopleSoft GL integration uses the Oracle ODI ELT tool to process the accounting entries and load them to the accounting entry staging table in PeopleSoft. The PeopleSoft Journal Generator then processes these accounting entries, creating journal entries for posting to the PeopleSoft GL.

Financials Accounting Hub uses the structures that are defined in Oracle GL, such as the chart of accounts, periods, and currencies to create valid accounting entries. To integrate Financials Accounting Hub with PeopleSoft, values for these structures are replicated in Oracle GL from PeopleSoft GL; and account combinations that are generated in Financials Accounting Hub are validated by PeopleSoft. This process enables Financials Accounting Hub to send a valid set of accounting entries to PeopleSoft GL.

The Financials Accounting Hub to PeopleSoft GL PIP provides processes for these events:

1. Initial load and ongoing synchronization and validation of reference data:
    a. Load and synchronization of currency exchange rates.
    b. Synchronization of accounting period statuses.
    c. Synchronization of charts of accounts to ChartFields.
    d. Validation of chart of accounts values to ChartField values and combinations.
2. Transfer accounting entries from Financials Accounting Hub to PeopleSoft.
3. Synchronization of PeopleSoft GL Journal delete to Financials Accounting Hub entry correction.
4. Drillback from PeopleSoft GL to Financials Accounting Hub entries (does not use the AIA methodology).

Application Interfaces

This section describes the delivered PeopleSoft and Financials Accounting Hub application interfaces that are used by this process integration.

PeopleSoft Interfaces

These tables list the PeopleSoft application interfaces:

AIA Services	API
SyncCurrencyExchangeListPeopleSoftReqABCSImpl (outbound) ExchangeRateSyncEBM.V1.xsd	Invokes the synchronization of currency exchange rates between Financials Accounting Hub and PeopleSoft after the rates are added, updated, or deleted within PeopleSoft.
ProcessAccountingPeriodPeopleSoftReqABCSImpl (outbound) AccountingPeriodPeopleSoftJMSProducer.xsd GL_ACCOUNTINGPERIOD_ABM.xsd GL_ACCOUNTINGPERIOD_EBM.xsd ProcessAccountingPeriodOpenWindowList.V1.xsd	GL_PROCESS_ACCOUNTING_PERIOD Invokes the synchronization of accounting period statuses between Financials Accounting Hub and PeopleSoft.
SyncAccountGLElementValueSetListPeopleSoftReq ABCSImpl	Invokes the synchronization of Account values between PeopleSoft and Financials Accounting

AIA Services	API
(outbound) SyncGLAcctValueSetEBM.V1.xsd	Hub.
SyncGLElementValueSetListPeopleSoftReqABCSImpl (outbound) SyncGLValueSetEBM.V1.xsd	Invokes the synchronization of ChartField values (other than Account) between PeopleSoft and Financials Accounting Hub.
ProcessGLAccountValidationPeopleSoftProvABCSImpl (inbound) ChartFieldComboEditReq.V1.xsd ChartFieldComboEditRes.V1.xsd GL_CHARTFIELD.1.wsdl	GL_CHARTFIELD_COMBO_EDIT Validates chart of accounts combinations for systems and products that run outside of the financials core database (in this case, Financials Accounting Hub).
DeleteAccountingEntryListPeopleSoftReqABCSImpl (outbound) DeleteAccountingEntryListEBM.V1.xsd	Invokes the notification process to Financials Accounting Hub when a journal is deleted from PeopleSoft GL.

Non-AIA Services	API
Drillback to Financials Accounting Hub accounting entries from PeopleSoft GL	GETTARGETURL Delivered web service for drilling back to Financials Accounting Hub entries.

For more information, see Activating Service Operations, Queues and Handlers.

Financials Accounting Hub Application Interfaces

These tables list the Financials Accounting Hub application interfaces:

Services	API
SyncCurrencyExchangeListEbizProvABCSImpl CurrencyExchangeEBS.wsdl ValueSetABM.xsd.API remains the same APPS_GL_EBI_PUB_PURGE_CURRENCY_EXC_ RATE_ LIST.xsd	GL_EBI_PUB.PROCESS_CURRENCY_EXC_ RATE_ LIST Loads the rates to the Daily Rates Interface table in Financials Accounting Hub and maps them to the Currency Rates Description. GL_EBI_PUB.PURGE_CURRENCY_EXC_ RATE_LIST Cleans Daily Rates Interface table.
ProcessAccountingPeriodOpenWindowListEbizProv ACBSImpl APPS_GL_EBI_PUB_PROCESS_ACCOUNTING_ PERIOD_ LIST.xsd	GL_EBI_PUB.PROCESS_ACCOUNTING_ PERIOD_ LIST Validates the data received from PeopleSoft and updates the period status in E-Business Suite.

Services	API
SyncAccountGLElementValueSetListEbizProvACBSImpl SyncGLElementValueSetListEbizProvACBSImpl APPS_GL_COA_SEG_VAL_IMP_PUB_COA_ SEGMENT_ VAL_IMP.xsd	GL_COA_SEG_VAL_IMP_PUB.COA_SEGMENT_VAL_IMP
ProcessGLAccountValidationEbizReqABCSImpl ChartOfAccountsABM.xsd ChartOfAccountsABO.xsd	FSAH Process GLAccountValidation API Invokes the process that submits a request to PeopleSoft to validate the chart of account segment combinations for Financials Accounting Hub.
DeleteAccountingEntryListEbizProvABCSImpl APPS_XLA_FSAH_INT_PVT_REV_JOUR_ENTRY_ LIST.xsd	XLA_FSAH_INT_PVT.REV_JOUR_ENTRY_LIST Calls Financials Accounting Hub to create a reversal journal entry and de-link the original entry from the Event ID to allow reprocessing.

Non-AIA Service (ODI) API	Description
FSAH Check Lines API	Evaluates the ledger ID of Financials Accounting Hub pending accounting entries to check whether they are mapped to a PeopleSoft business unit and ledger.
Generate and Stamp Group ID API	Checks pending accounting entries in Financials Accounting Hub that have not been transferred and stamps them with the appropriate GroupID.
Update GL Transfer Status API	Updates transfer status of accounting entries upon transfer from Financials Accounting Hub to PeopleSoft.

Core AIA Components

This table lists the core components used by the Financials Accounting Hub to PeopleSoft GL integration:

EBO (.xsd) (Enterprise Business Object)	EBM (.xsd) (Enterprise Business Message)	EBS (.wsdl) (Enterprise Business Service)
CurrencyExchangeEBO	SyncCurrencyExchangeListEBM	CurrencyExchangeEBS
AccountingPeriodEBO	ProcessAccountingPeriodOpenWindowList EBM	AccountingPeriodEBS
ChartOfAccountsEBO	ProcessGLAccountValidationEBM	ChartOfAccountsEBS
	ProcessGLAccountValidationResponse EBM	

EBO (.xsd) (Enterprise Business Object)	EBM (.xsd) (Enterprise Business Message)	EBS (.wsdl) (Enterprise Business Service)
GLAccountElementValueSetEBO	SyncAccountGLElementValueSetListEBM	AccountGLElementValueSetEBS
GLElementValueSetEBO	SyncGLElementValueSetListEBM	GLElementValueSetEBS
AccountingEntryEBO	DeleteAccountingEntryListEBM	AccountingEntryEBS

Note: PeopleSoft architecture supports a local transformation that allows the structure of the ABM to very nearly match what is traditionally an EBM. While the structure of the PSFT ABM is similar to an EBM, it is missing a few pieces that are added in the PeopleSoft ABCS. The EBM header and the AIA namespace are not provided by PeopleSoft and are, therefore, added by the ABCS. As the ABCS is a lightweight ABCS and does not perform a structural transformation, the object throughout this document is termed an EBM also, despite the fact it is technically an ABM.

No business objects exist for extracting the Financials Accounting Hub accounting transactions and transporting them to PeopleSoft GL since the ODI ELT process handles this function.

For more information, see Setting up the Participating Applications, Configuring Oracle Data Integrator.

Using your host port, the EBO and EBM .xsd files are located at *http://<host:port>/AIAComponents/EnterpriseObjectLibrary/Core/EBO/* and the EBS .wsdl files are at *http://<host:port>/AIAComponents/EnterpriseBusinessServiceLibrary/Core/EBO/*.

For documentation of individual EBOs, click the View EBO Documentation link on the Integration Scenario Summary page in the Oracle AIA Console. You can also use the Integration Scenario Summary page to search for and view integration scenarios that utilize a particular EBO or EBS.

For more information, see Oracle Application Integration Architecture - Foundation Pack: Core Infrastructure Components Guide, “Using the BSR,” Using the BSR UI to View Integration Scenarios.

EBOs can be extended to add new data elements. These extensions are protected and will remain intact after a patch or an upgrade.

For more information, see Oracle AIA Integration Developer’s Guide, “Extensibility for Oracle AIA Artifacts,” Extending EBOs.

Viewing EBO Implementation Maps (EIMs)

For more information about how services are mapped, see the My Oracle Support document: EBO Implementation Maps (EIMs) 881022.1.

Domain Value Maps (DVMs) used in the Financials Accounting Hub to PeopleSoft GL integration

A domain value map (DVM) is a standard feature of the SOA suite. DVMs are XML files that contain the mapping between related information in the participating applications. The AIA DVMs are maintained in the AIA layer. PeopleSoft maintains DVMs in addition to the DVMs that are stored within AIA. The AIA DVMs and the corresponding PeopleSoft DVMs are presented in this table and should be maintained in both systems:

AIA DVM	Description of Mapping	PeopleSoft DVM
SyncAccountGLElementValueSet / SyncGLElementValueSet		
ACCOUNTGLELEMENTVALUESET_ACCOUNT_TYPE_CODE	E-Business Suite to PeopleSoft acct type	AccountTypeDVM
VALUESET_NAME	E-Business Suite ValueSet to PeopleSoft setID and ChartField	ChartfieldValueSetDVM
GLELEMENTVALUESET_CONTROL_ACCOUNT_INDICATOR_TYPE	Map PeopleSoft control account indicator to E-Business Suite ValueSet.	NA
APPS_USER	E-Business Suite applications user to EBM LangCode	NA
SyncCurrency		
APPS_USER	E-Business Suite applications user to EBM LangCode	NA
CURRENCYEXCHANGE_CONVERSIONTYPECODE (1)	E-Business Suite to PeopleSoft rate type	CONVERSIONTYPECODE
CURRENCY_CODE (1)	E-Business Suite to PeopleSoft curr code	CURRENCY95CODE
EBIZ_CURR_CONVTYPECODE_DURATION	Value needed to derive the To_Date from the From_Date for E-Business Suite	NA
LANGUAGE_CODE	Language codes of applications	LanguageCodeDVM
ProcessAccountingOpenWindow		
BUSINESS_UNIT (1) (2)	E-Business Suite Ledger to PeopleSoft Ledger for a BU	BULedgerDVM
ProcessGLAccountValidation and Journal Generator		
CHARTOFACCOUNTS_GLELEMENT (1)	E-Business Suite Segment to PeopleSoft ChartField	ChartFieldDVM
CHARTOFACCOUNTS_NAME	E-Business Suite LedgerID-COA Name to PeopleSoft Ledger for a business unit	NA

AIA DVM	Description of Mapping	PeopleSoft DVM
JGEN_TEMPLATE (1)	Journal Generator Template to E-Business Suite application short name	NA
ProcessGLAccountValidation and Journal Generator		
EBIZ_SEGMENT_DEFAULT_VALUES (1)	Default Segment value to single space	NA

(1) DVMs leveraged by ODI.

(2) This DVM is also used in ProcessGLAccountValidation processing.

For more information, specifically about DVMs leveraged by ODI, see Exporting the DVMs. See also Validating and Exporting Domain Value Maps.

Financials Accounting Hub to PeopleSoft GL-Specific Components

These services are delivered with this integration:

- CurrencyExchangePeopleSoftJMSProducer
- CurrencyExchangePeopleSoftJMSConsumer
- SyncCurrencyExchangeListPeopleSoftReqABCSImpl
- CurrencyExchangeEBS
- SyncCurrencyExchangeListEbizProvABCSImpl
- AccountingPeriodPeopleSoftJMSProducer
- AccountingPeriodPeopleSoftJMSConsumer
- ProcessAccountingPeriodPeopleSoftReqABCSImpl
- AccountingPeriodEBS
- ProcessAccountingPeriodOpenWindowListEbizProvABCSImpl
- SyncGLElementValueSetPeopleSoftJMSProducer
- SyncGLElementValueSetPeopleSoftJMSConsumer
- SyncGLElementValueSetListPeopleSoftReqABCSImpl
- GLElementValueSetEBS
- SyncGLElementValueSetListEbizProvABCSImpl
- SyncAccountGLElementValueSetListPeopleSoftJMSProducer
- SyncAcctGLElementValueSetPeopleSoftJMSConsumer

- SyncAccountGLElementValueSetListPeopleSoftReqABCSImpl
- AccountGLElementValueSetEBS
- SyncAccountGLElementValueSetListEbizProvABCSImpl
- DeleteAccountingEntryPeopleSoftJMSProducer
- DeleteAccountingEntryListPeopleSoftJMSConsumer
- DeleteAccountingEntryListPeopleSoftReqABCSImpl
- AccountingEntryEBS
- DeleteAccountingEntryListEbizProvABCSImpl
- ProcessGLAccountValidationEbizReqABCSImpl
- ChartOfAccountsEBS
- ProcessGLAccountValidationPeopleSoftProvABCSImpl

Chapter 3: Synchronizing Currency Exchange Rates for the Integration Process

This chapter provides an overview of the process integration for initial loading and incremental synchronization of currency exchange rates between Financials Accounting Hub and PeopleSoft GL and discusses:

- Implementation recommendations and clarifications of the currency exchange process.
- Currency exchange rate integration process flow.
- Application interfaces for Currency Exchange process.
- Core AIA components
- Data Requirements.
- Mapping details.
- Integration services detail.

Process Integration for Currency Exchange Rates Overview

Currency Exchange Rates are reference information used in the translation of monetary values from one currency to another. Synchronization of currency exchange rates between the participating applications avoids duplication of manual entries.

This process integration publishes currency exchange rates from PeopleSoft to Financials Accounting Hub for initial load and ongoing synchronization. The Currency Exchange Rate information is maintained in PeopleSoft but is also stored and used in Financials Accounting Hub. PeopleSoft stores the rates based on effective dates; however, Financials Accounting Hub stores currency rates per date for a given rate type. During full synchronization at implementation time as well as for incremental synchronization, PeopleSoft publishes all currency exchange rates: history, current, and future (if any) rows.

Implementation Recommendations and Clarifications of the Currency Exchange Process

The implementation recommendations and clarifications of the currency exchange rate integration are:

- Currency codes and currency rate types must be manually loaded in E-Business Suite during implementation and maintained separately within the respective applications.
- Use the all-date publishing services for both the initial full synchronization and incremental synchronization of currency exchange rates to publish all rows for exchange rates.
- The Auto Reciprocate flag must be selected within the Currency Quotation Method for the

process to work.

- Before running a full synchronization during implementation, verify that all of the necessary reciprocal rates exist. If not, run the Cross/Reciprocal Rate Calc process (EO9030.sqr).
- Always rerun a full synchronization after the Cross/Reciprocal Rate Calc process since the sqr does not trigger the publishing of the newly calculated data.
- Consider disabling the Recalc Currency Exchange Rates option in the Online Journal Edit Defaults section within User Preferences to disallow recalculation of the currency exchange rates during journal edit.
- The currency amounts precision in E-Business Suite must be set up to match the PeopleSoft Financials format (23 digits and 3 decimal points)..
- The root element of the messages that are published from PeopleSoft to AIA has a different namespace than that on the EBM; therefore, a transformation occurs in the AIA layer to match the namespace before consuming those messages.
- Set the transaction timeout values (for example, 3600) appropriately based on the amount of data to be synchronized. This setting prevents the transaction from timing out while interacting with the participating application for high volumes of data.

Following are the scenarios that the currency full sync will need to be rerun:

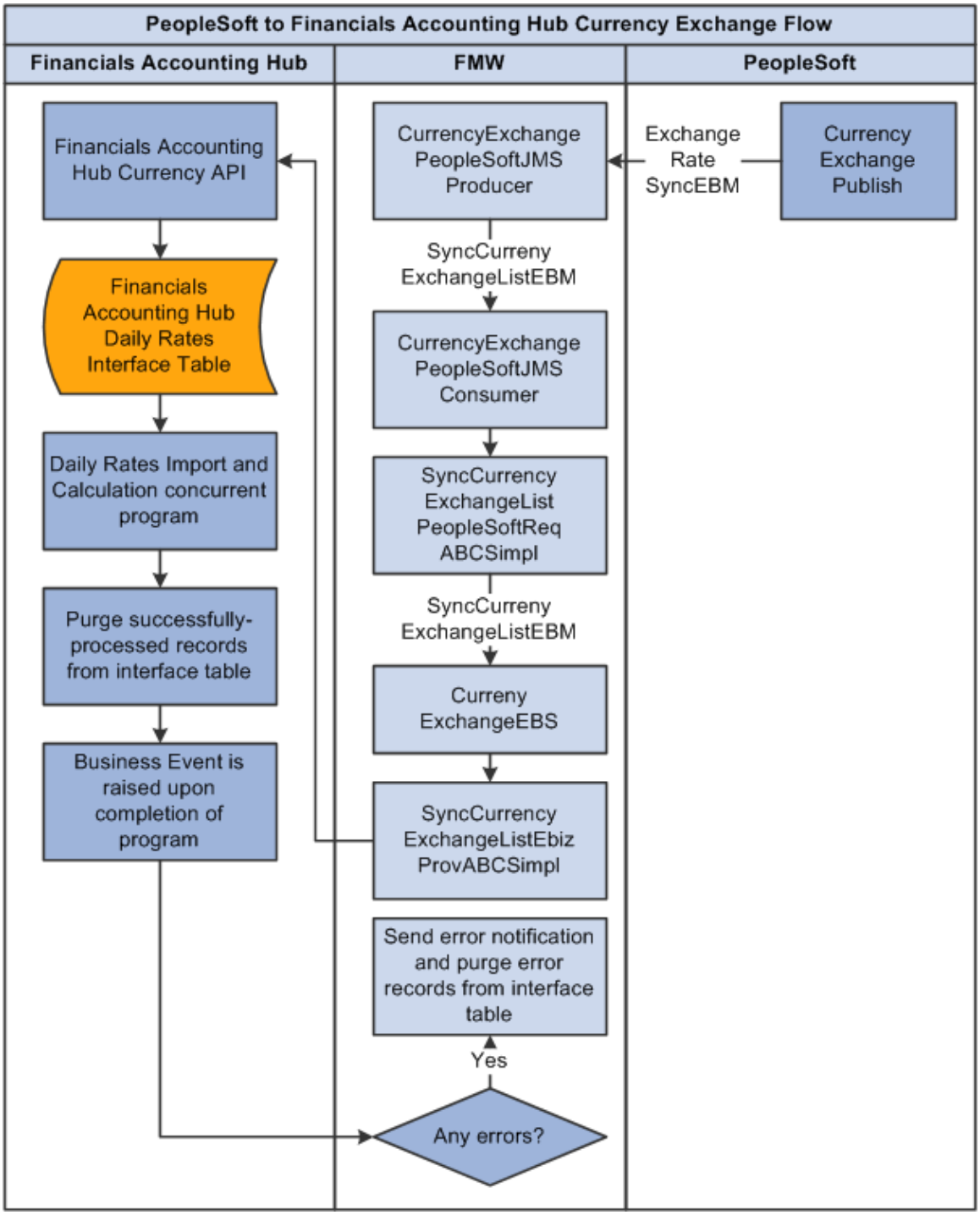
- Normal full sync.
- Update of Historic Rates: If changes are made to the history and new effective dated rows are not added, a full synch is necessary to synchronize the updated history.
- Future Rates: Any updates that take place for Future records.
- BPEL Failure: If a date synchronization fails within the BPEL layer and the process can't be started again, the full synch can be run to synchronize all of the data.

For more information about timeout values, see Prerequisites and Considerations.

For more information, see Currency Codes, Rate Types and Currency Exchange Rates and Activating Service Operations, Queues and Handlers.

Currency Exchange Rate Integration Process Flow

This diagram shows the Financials Accounting Hub to PeopleSoft currency exchange process:



Financials Accounting Hub to PeopleSoft Currency Exchange Rate integration process

These services are delivered for this process:

- CurrencyExchangePeopleSoftJMSProducer
- CurrencyExchangePeopleSoftJMSConsumer
- SyncCurrencyExchangeListPeopleSoftReqABCSImpl

- CurrencyExchangeEBS
- SyncCurrencyExchangeListEbizProvABCSImpl

The automated flow of this data is from PeopleSoft to Financials Accounting Hub as the following events occur:

1. When Market Rates are added, updated, or deleted within PeopleSoft, CurrencyExchange ABM publish is triggered, which invokes the synchronization of currency exchange rates between Financials Accounting Hub and PeopleSoft.
2. PeopleSoft Integration Broker (IB) transforms the PeopleSoft ExchangeRateABM into the CurrencyExchangeEBM and publishes the transformed rates by effective date and type through the SyncCurrencyExchangeList EBM to the CurrencyExchangePeopleSoftJMSProducer.
3. The CurrencyExchangePeopleSoftJMSProducer stages the message in the JMS queue. This message is then picked up by the CurrencyExchangePeopleSoftJMSConsumer and is published to the SyncCurrencyExchangeListPeopleSoftReqABCSImpl.
4. The SyncCurrencyExchangeListPeopleSoftReqABCSImpl then takes the PeopleSoft SyncCurrencyExchangeListEBM with the CurrencyExchangeEBO and calls the CurrencyExchangeEBS.
5. The CurrencyExchangeEBS publishes the exchange rates to the SyncCurrencyExchangeListEbizProvABCSImpl, which triggers the Financials Accounting Hub Currency API. The API then loads the rates to the Daily Rates Interface table in Financials Accounting Hub and maps them to the Currency Rates Description.
6. The completion of the Daily Rates Import and Calculation program raises a business event so that, in case any errors occur, the records are purged from the Daily Rates Interface table and a notification is sent. The Daily Rates Import concurrent program itself removes the successful records.

Note: Warning messages related to the synchronization of EMU exchange rates may occur at the BPEL process level for SyncCurrencyExchangeListEbizProvABCSImpl. The Daily Rates Import and Calculation program is designed to reject rates between EMU currencies and non-EMU currencies. Instead, it uses the rates between EUR and non-EMU currencies to calculate the rates between EMU currencies and non-EMU currencies. If it is imperative that those rates be synchronized from PeopleSoft to E-Business Suite, configure the EMU currencies within E-Business Suite at implementation time to act as non-EMU currencies. See Configuring E-Business Suite, Currency Codes, Currency Conversion Types, and Currency Exchange Rates.

For more information, see Currency Codes, Rate Types and Currency Exchange Rates, and Activating Service Operations, Queues and Handlers.

Application Interfaces for Currency Exchange Process

The PeopleSoft application interfaces for the currency exchange process are:

Application Interface	Process

Application Interface	Process
SyncCurrencyExchangeListPeopleSoftReqABCSImpl (outbound) ExchangeRateSyncEBM.V1.xsd	Invokes the synchronization of currency exchange rates between Financials Accounting Hub and PeopleSoft after the rates are added, updated, or deleted within PeopleSoft. For more information, see Currency Codes, Rate Types and Currency Exchange Rates,

The E-Business Suite application interfaces for the currency exchange process are:

Application Interface	Process
SyncCurrencyExchangeListEbizProvABCSImpl CurrencyExchangeEBS.wsdl APPS_GL_EBI_PUB_PROCESS_CURRENCY_EXC_ RATE_LIST.xsd APPS_GL_EBI_PUB_PURGE_CURRENCY_EXC_ RATE_LIST.xsd	GL_EBI_PUB.PROCESS_CURRENCY_EXC_RATE_ LIST Loads the rates to the Daily Rates Interface table in Financials Accounting Hub and maps them to the Currency Rates description. GL_EBI_PUB.PURGE_CURRENCY_EXC_RATE_ LIST Cleans the Daily Rates Interface table.

Core AIA Components

The currency exchange rate integration uses these core AIA components:

- CurrencyExchangeEBO
- SyncCurrencyExchangeListEBM
- CurrencyExchangeEBS

For more information, see Core AIA Components.

Data Requirements

This table lists the AIA DVMs that must be updated for initial load and ongoing synchronization of currency exchange rates:

DVM	Description
(1) (2) CURRENCY_CODE	Maps currency codes between Financials Accounting Hub and PeopleSoft.
(1) (2) CURRENCYEXCHANGE_CONVERSIONTYPECODE	Maps currency rate types.
(2) LANGUAGE_CODE	Maps language codes of applications.

DVM	Description
APPS_USER	Maps E-Business Suite applications user to the EBM LangCode.
EBIZ_CURR_CONVTYPECODE_DURATION	Value needed to derive the To_Date from the From_Date for E-Business Suite.

(1) Leveraged by ODI for transformation of Financials Accounting Hub accounting entries to PeopleSoft journals.

For more information, see Configuring Oracle Data Integrator.

(2) For corresponding PeopleSoft DVMs.

For more information, see Setting Up PeopleSoft for the Financials Accounting Hub to PeopleSoft GL Integration.

Note: While some DVMs are pre-populated with system data, you must review the delivered data to add new data or to make modifications to match the actual data that is used in the system.

Mapping Details

The tables in this section represent examples of the DVMs that reside within the AIA layer to synchronize currency information between Financials Accounting Hub and PeopleSoft:

Note: These tables contain values that are provided as examples only. The actual values that are delivered in the DVMs likely differ from the values that are presented in these tables.

CURRENCY_CODE AIA DVM maps currency codes between systems:

PSFT_01 FOREIGN_CURRENCY	Common	EBIZ_01 CURRENCY_CODE
USD	CC000	USD
CAD	CC001	CAD
ESP	CC002	ESP
EUR	CC003	EUR

CURRENCYEXCHANGE_CONVERSIONTYPECODE AIA DVM maps the rate types:

PSFT_01	Common	EBIZ_01
CRRNT	RT001	C

For more information, see corresponding PeopleSoft DVMs in Setting up the Participating Applications. See also, Currency Codes, Rate Types and Currency Exchange Rates, CURRENCY95CODE, and CONVERSIONTYPECODE.

LANGUAGE_CODE AIA DVM maps the language codes between Financials Accounting Hub and PeopleSoft:

PSFT_01	Common	EBIZ_01
ENG	LAN01	US

For more information, see LanguageCodeDVM.

APPS_USER AIA DVM maps the E-Business Suite applications user to the EBM LangCode:

USER_NAME	LANG_CODE
FSAH	US

EBIZ_CURR_CONVTYPECODE_DURATION AIA DVM maps the currency conversion type codes to the value, in days, that is needed to calculate the To_Date from the From_Date.

Update this DVM with the duration for which these currencies are valid. PeopleSoft currency rates are effective-dated and the currency data includes a From_Date, but does not include a To_Date (since it remains effective until the next currency rate is entered). Therefore, E-Business Suite derives the To_Date for the currency conversion types from this DVM based on the durations that are entered for each type code. For example, the spot rate can change daily. In this case, enter a duration of “1.” If the corporate rate changes every 15 days, enter a value of “15.”

USER_CONVERSION_TYPE	DURATION
CRRNT	15

Integration Services Detail

This section discusses details about the following services that are delivered for this process:

- CurrencyExchangePeopleSoftJMSProducer
- CurrencyExchangePeopleSoftJMSConsumer
- SyncCurrencyExchangeListPeopleSoftReqABCSImpl
- CurrencyExchangeEBS
- SyncCurrencyExchangeListEbizProvABCSImpl

CurrencyExchangePeopleSoftJMSProducer

Back to process flow

The CurrencyExchangePeopleSoftJMSProducer service is a BPEL process. PeopleSoft invokes this service when:

- A new exchange rate is created.
- An existing exchange rate is updated or deleted (deletion is not recommended).
- A bulk load of exchange rates is synced.

This service populates the JMSCorrelationID and puts the message in the AIA_CURREXJMSQUEUE.

CurrencyExchangePeopleSoftJMSConsumer

CurrencyExchangePeopleSoftJMSConsumer is an ESB service. It has a JMS adapter called CurrencyExchangePeopleSoftJMSConsumer. This adapter listens to the AIA_CURREXJMSQUEUE and picks up the messages whose JMSCorrelationID is SYNC.

This service invokes the SyncCurrencyExchangeListPeopleSoftReqABCSImpl with the SyncCurrencyExchangeListEBM.

SyncCurrencyExchangeListPeopleSoftReqABCSImpl

Back to process flow

Back to interfaces

The SyncCurrencyExchangeListPeopleSoftReqABCSImpl is a BPEL service that is invoked after Exchange Rates are created, updated, or deleted by PeopleSoft on the Market Rate page in order to load and synchronize currency exchange rates with Financials Accounting Hub.

For more information, see the Market Rate page within the PeopleSoft application setup.

The ExchangeRateABM includes the PeopleSoft Rate Multiplier and Rate Divisor. Integration Broker (IB) converts them into one exchange rate by dividing the Rate Multiplier by the Rate Divisor and publishes the resulting exchange rate, along with the multiplier and divisor rates, as part of the SyncCurrencyExchangeListEBM. Financials Accounting Hub uses the resulting conversion rate. This table presents an example of this calculation:

From_ Cur	To_ Cur	EFFDT	RT_TYPE	RATE_ MULT	RATE_ DIV	Exchange Rate (Multiplier/Divisor)
USD	ATS	3/13/2008	Corporate	13.7603	1.5584	8.829761294
USD	BEF	3/13/2008	Corporate	40.3399	1.5584	25.88545945
FRF	DEM	12/31/1998	Corporate	1.95583	6.55957	0.298164361
ESP	ITL	12/31/1998	Corporate	1936.27	166.386	11.63721707
USD	EUR	3/13/2008	Corporate	1.5584	1	1.5584

RATE_MULT - EBO field name is ConversionMultiplierRate.

RATE_DIV - EBO field name is ConversionDivisorRate.

Exchange Rate Multiplier/Divisor - EBO field name is ConversionRate.

This service performs these functions:

- Adds the CurrencyExchange EBM header level details.
- Publishes the SyncCurrencyExchangeList EBM.
- Invokes the CurrencyExchange EBS.

You can use the Integration Scenario Summary page in the Oracle AIA Console to search for and view integration scenarios that utilize a particular ABCS.

For more information, see *Oracle Application Integration Architecture - Core Components Guide,* "Using the BSR," Using the BSR UI to View Integration Scenarios.

CurrencyExchangeEBS

Back to process flow

The CurrencyExchangeEBS is an ESB service that is called by the SyncCurrencyExchangeListPeopleSoftReqABCSImpl. It publishes the currency exchange rates to the Financials Accounting Hub application business connector service (ABCS).

The CurrencyExchangeEBS service:

- Receives the SyncCurrencyExchangeListEBM, which extends the CurrencyExchangeEBO with the daily currency conversion rates between any two currencies that are used to convert foreign currency amounts.
- Publishes the exchange rates to the SyncCurrencyExchangeListEbizProvABCSImpl, which triggers the Financials Accounting Hub Currency API. The API then loads the rates to the Daily Rates Interface table in Financials Accounting Hub and maps them to the Currency Rates Description.
- The completion of the Daily Rates Import and Calculation program creates a business event that sends error notifications in case of any errors and purges the records in the Daily Rates Interface table.

Any errors are handled as unexpected errors. They are logged and the Integration specialist is notified.

You can use the Integration Scenario Summary page in the Oracle AIA Console to search for and view integration scenarios that utilize a particular ABCS.

For more information, see *Oracle Application Integration Architecture - Core Components Guide,* "Using the BSR," Using the BSR UI to View Integration Scenarios.

SyncCurrencyExchangeListEbizProvABCSImpl

Back to process flow

Back to interfaces

The SyncCurrencyExchangeListEbizProvACSImpl is a BPEL service that is called by the CurrencyExchange EBS.

The SyncCurrencyExchangeListEbizProvACSImpl service:

- Triggers the Financials Accounting Hub Currency API. The API then loads the rates to the Daily Rates Interface table in Financials Accounting Hub and maps them to the Currency Rates Description.
- Receives the SyncCurrencyExchangeList EBM, encapsulating the CurrencyExchange EBO and converting the input to the Financials Accounting Hub CurrRateDescABO, which loads the GL_DAILY_RATES_INTERFACE table in E-Business Suite.

FROM_CURRENCY	TO_CURRENCY	CONVERSION_DATE	USER_CONVERSION_ TYPE	CONVERSION_RATE
USD	ATS	3/13/2008	Corporate	8.829761294
USD	BEF	3/13/2008	Corporate	25.88545945
FRF	DEM	12/31/1998	Corporate	0.298164361
ESP	ITL	12/31/1998	Corporate	11.63721707
USD	EUR	3/13/2008	Corporate	1.5584
EUR	JPY	3/13/2008	Corporate	156.973

AIA triggers the Daily Rates Import and Calculation concurrent program in E-Business Suite to import the data into the GL daily rates base table.

The Daily Rates Import and Calculation concurrent program validates the data and updates the daily rates in Oracle GL. The Daily Rates Import and Calculation program can create the cross rates as necessary. If a record fails validation then the concurrent program will mark it as error.

The Daily Rates Import and Calculation concurrent program is enhanced to raise a business event upon completion. AIA subscribes to this business event and checks for error records in the interface table. If error records exist, AIA extracts the error records and sends them to the designated user as an error notification email. AIA then deletes the error records from the interface table.

You can use the Integration Scenario Summary page in the Oracle AIA Console to search for and view integration scenarios that utilize a particular ABCS.

For more information, see *Oracle Application Integration Architecture - Core Components Guide,* “Using the BSR,” Using the BSR UI to View Integration Scenarios.

Chapter 4: Synchronizing Accounting Period Status for the Integration Process

This chapter provides an overview of the process integration for synchronization of open period statuses between E-Business Suite and PeopleSoft and discusses:

- Implementation recommendations and clarifications of the accounting period status process.
- Accounting period status integration process flow.
- Application interfaces for the Accounting Period Status process
- Core AIA components
- Data requirements.
- Integration services detail.

Process Integration for Open Period Status Overview

The Financials Accounting Hub to PeopleSoft GL accounting period status synchronization process is initiated when accounting period statuses are updated by ledger group in PeopleSoft through the Open Period Update or Open Period Mass Update pages. The process can also be initiated when running the GL ledger close process (GLPCLOSE).

Running the GL_FSAH_APFS Application Engine process performs the initial load of accounting period statuses.

For more information, see Synchronizing Open Periods.

Implementation Recommendations and Clarifications of the Accounting Period Status Process

The implementation recommendations and clarifications of the accounting period status integration between Financials Accounting Hub and PeopleSoft GL are:

- Calendars and baseline data for ledgers must be defined manually in E-Business Suite. Once that setup is complete, the period status is maintained in PeopleSoft and synchronized in E-Business Suite for Financials Accounting Hub.
- Changing calendars for a ledger, once established, is not supported in this integration.
- An E-Business Suite ledger is equivalent to a PeopleSoft GL ledger (within a ledger group within a business unit). This allows opening and closing of periods at the business unit level.

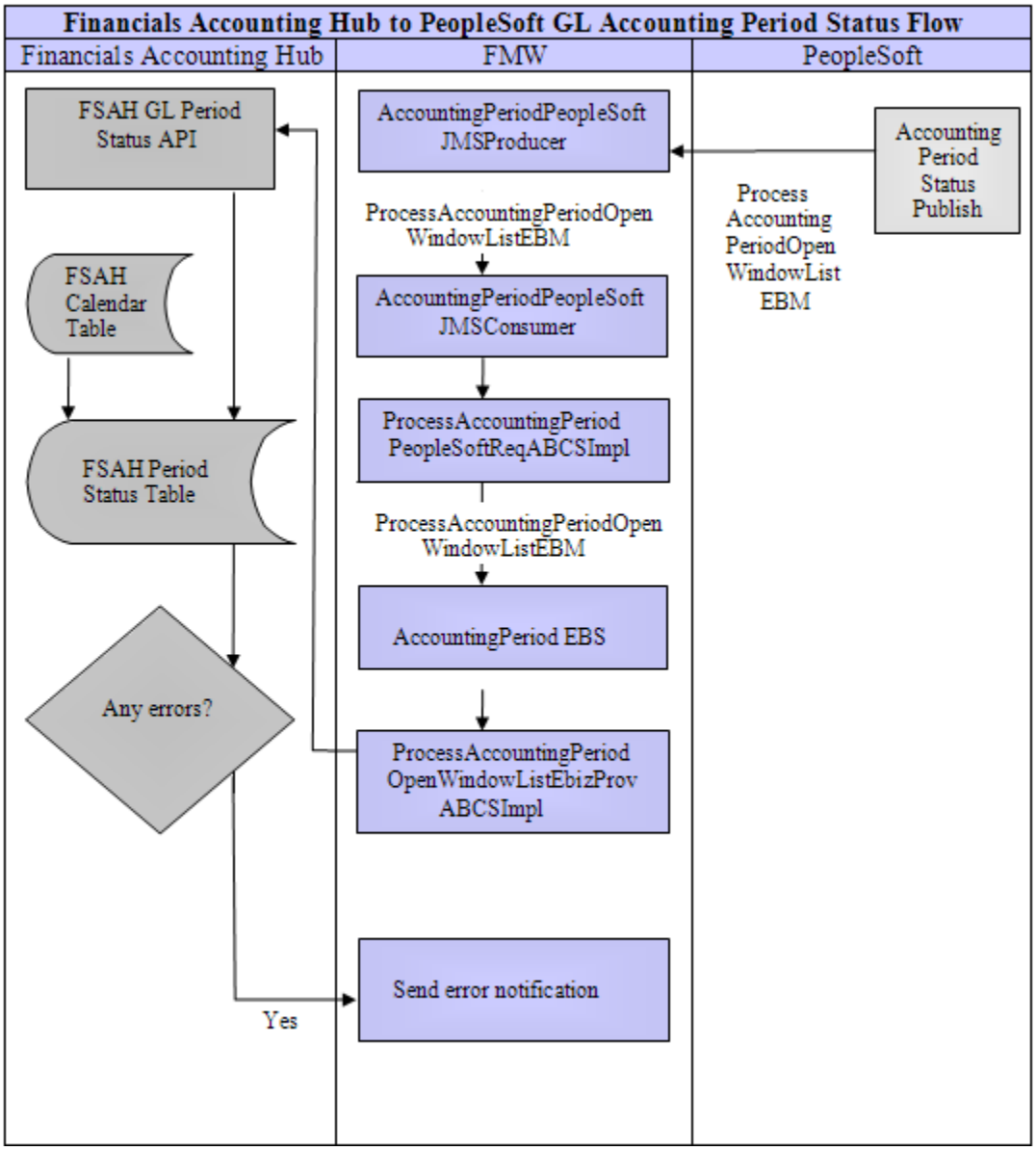
- Only one calendar can be active for a ledger at a given time. Both PeopleSoft and Financials Accounting Hub must use a single calendar.
- Accounting periods are the same in PeopleSoft and Financials Accounting Hub with identical start and end dates.
- Set the transaction timeout values appropriately based on the amount of data to be synchronized. This prevents the transaction from being timed-out while interacting with the participating application for high volumes of data.

For more information, see Prerequisites and Considerations for timeout value details.

- Open period statuses for adjustment periods are not required.
- The root element of the messages that are published from PeopleSoft to AIA has a different namespace than that on the EBM; hence a transformation occurs on the AIA layer to match the namespace before consuming those messages.

Accounting Period Status Integration Process Flow

This diagram shows the Accounting Period Status process flow:



Financials Accounting Hub to PeopleSoft GL Accounting Period Status process

These services are delivered with this process:

- AccountingPeriodPeopleSoftJMSProducer
- AccountingPeriodPeopleSoftJMSConsumer
- ProcessAccountingPeriodPeopleSoftReqABCSImpl
- AccountingPeriodEBS
- ProcessAccountingPeriodOpenWindowListEbizProvABCSImpl

Changes to the PeopleSoft accounting period statuses from using the Open Period Update page or Open Period Mass Update page, or running the ledger close process, triggers the following events:

1. PeopleSoft publishes the PeopleSoft AccountingPeriodABM to PeopleSoft Integration Broker (IB).
2. PeopleSoft IB transforms the PeopleSoft AccountingPeriodABM into the ProcessAccountingPeriodOpenWindowListEBM.
3. PeopleSoft IB publishes the ProcessAccountingPeriodOpenWindowListEBM to the AccountingPeriodPeopleSoftJMSProducer, which stages the message in the JMS queue.
4. This message is picked up by the AccountingPeriod PeopleSoftJMSConsumer and published to the ProcessAccountingPeriodPeopleSoftReqABCSImpl.
5. The ProcessAccountingPeriodPeopleSoftReqABCSImpl then takes the PeopleSoft ProcessAccountingPeriodOpenWindowListEBM with the AccountingPeriodEBO and calls the AccountingPeriod EBS.
6. The AccountingPeriodEBS publishes the open and closed accounting periods by ledger group and corresponding dates to the ProcessAccountingPeriodOpenWindowListEbizProvABCSImpl, which triggers the Financials Accounting Hub GL Period Status API.
7. The API validates the data that is received from PeopleSoft and updates the period status in E-Business Suite. It loads the periods and dates to the Period Status Table in Financials Accounting Hub. If the update is not successful, the API returns the error message to the AIA layer, which sends an error notification to the user.

Note: This integration does not support period status update for adjustment periods.

Application Interfaces for the Accounting Period Status Process

The PeopleSoft application interfaces for the accounting period status process are:

Application Interface	Process
ProcessAccountingPeriodPeopleSoftReqABCSImpl AccountingPeriodPeopleSoftJMSProducer.xsd GL_ACCOUNTINGPERIOD_ABM.xsd GL_ACCOUNTINGPERIOD_EBM.xsd ProcessAccountingPeriodOpenWindowList.V1.xsd	GL_PROCESS_ACCOUNTING_PERIOD Invokes the synchronization of accounting period statuses between Financials Accounting Hub and PeopleSoft.

The E-Business Suite application interfaces for the accounting period status process are:

Application Interface	Process
ProcessAccountingPeriodOpenWindowListEbizProvACBSImpl APPS_GL_EBI_PUB_PROCESS_ACCOUNTING_PERIOD_LIST.xsd	GL_EBI_PUB.PROCESS_ACCOUNTING_PERIOD_LIST Validates the data received from PeopleSoft and updates the period status in E-Business Suite.

Core AIA Components

The accounting period status integration uses these core AIA components:

- AccountingPeriodEBO
- AccountingPeriodOpenWIndowListEBM
- AccountingPeriodEBS

For more information, including location details, see Core AIA Components.

Data Requirements

This table lists the AIA DVMs that are required for synchronization of accounting period statuses:

AIA DVS	Description
(1) (2) BUSINESS_UNIT	Maps E-Business Suite Ledger to PeopleSoft ledger for a business unit.

This DVM is used by the BPEL process to get the E-Business Suite Ledger Short Name that corresponds to a concatenated PeopleSoft business unit and ledger value.

(1) ODI also leverages this DVM for transformation of Financials Accounting Hub accounting entries to PeopleSoft journals.

For more information, see Configuring Oracle Data Integrator .

(2) See both AIA DVM and corresponding PeopleSoft DVM.

For more information, see Ledgers and Business Units.

Integration Services Detail

This section discusses details for the following services that are delivered for this process:

- AccountingPeriodPeopleSoftJMSProducer
- AccountingPeriodPeopleSoftJMSConsumer
- ProcessAccountingPeriodPeopleSoftReqABCSImpl
- AccountingPeriodEBS
- ProcessAccountingPeriodOpenWindowListEbizProvABCSImpl

AccountingPeriodPeopleSoftJMSProducer

Back to process flow

The AccountingPeriodPeopleSoftJMSProducer service is a BPEL process. PeopleSoft invokes this service when:

- Period statuses are updated using the Open Period Update page or Open Period Mass Update page.
- Running the GL ledger close process (GLPCLOSE).

This service populates the JMSCorrelationID and puts the message in the PSFT_GL_ACCTPERIOD_Q.

AccountingPeriodPeopleSoftJMSConsumer

The AccountingPeriodPeopleSoftJMSConsumer is an ESB service. It has a JMS adapter called ProcessAccountingPeriodPeopleSoftJMSConsumer. This adapter listens to the PSFT_GL_ACCTPERIOD_Q and picks up the messages whose JMSCorrelationID is SYNC.

This service invokes the ProcessAccountingPeriodPeopleSoftReqABCSImpl with the ProcessAccountingPeriodOpenWindowListEBM.

ProcessAccountingPeriodPeopleSoftReqABCSImpl

Back to process flow

Back to interfaces

The ProcessAccountingPeriodPeopleSoftReqABCSImpl is a BPEL service that is invoked after accounting period statuses are updated by PeopleSoft in order to synchronize open periods between PeopleSoft and Financials Accounting Hub.

After PeopleSoft IB transforms the PeopleSoft AccountingPeriod ABM into the ProcessAccountingPeriodOpenWindowList EBM, it publishes it to the ProcessAccountingPeriodPeopleSoftReqABCSImpl.

The ProcessAccountingPeriodPeopleSoftReqABCSImpl service:

- Adds the AccountingPeriodEBO header level details.
- Publishes the PeopleSoft ProcessAccountingPeriodOpenWindowList EBM, extending the AccountingPeriodEBO.
- Invokes the AccountingPeriodEBS.

You can use the Integration Scenario Summary page in the Oracle AIA Console to search for and view integration scenarios that utilize a particular ABCS.

For more information, see *Oracle Application Integration Architecture - Core Components Guide,* “Using the BSR,” Using the BSR UI to View Integration Scenarios.

AccountingPeriodEBS

Back to process flow

The AccountingPeriodEBS is an ESB service that is invoked by the ProcessAccountingPeriodPeopleSoftReqABCSImpl in order to update the Financials Accounting Hub Accounting Period status.

This service:

- Receives the payload message, ProcessAccountingPeriodOpenWindowListEBM, from the ProcessAccountingPeriodPeopleSoftReqABCSImpl, which extends the AccountingPeriodEBO.
- Publishes the ProcessAccountingPeriodOpenWindowListEBM to the ProcessAccountingPeriodOpenWindowEbizProvABCSImpl service.

You can use the Integration Scenario Summary page in the Oracle AIA Console to search for and view integration scenarios that utilize a particular ABCS.

For more information, see Oracle Application Integration Architecture - Core Components Guide, “Using the BSR,” Using the BSR UI to View Integration Scenarios.

ProcessAccountingPeriodOpenWindowListEbizProvABCSImpl

Back to process flow

Back to interfaces

The ProcessAccountingPeriodOpenWindowListEbizProvABCSImpl is a BPEL service that is called by the AccountingPeriodEBS in order to synchronize open accounting periods from PeopleSoft GL to Financials Accounting Hub.

This service:

- Receives the ProcessAccountingPeriodOpenWindowListEBM.
- Converts the ProcessAccountingPeriodOpenWindowListEBM input to the Financials Accounting Hub GLPeriodStatusABM.
- Sends the GLPeriodStatusABM with the accounting period status information to E-Business Suite and Financials Accounting Hub Period Table.

You can use the Integration Scenario Summary page in the Oracle AIA Console to search for and view integration scenarios that utilize a particular ABCS.

For more information, see *Oracle Application Integration Architecture - Core Components Guide,* “Using the BSR,” Using the BSR UI to View Integration Scenarios.

Chapter 5: Synchronizing Charts of Accounts for the Integration Process

This chapter provides an overview of the process integration for synchronization of E-Business Suite chart of accounts to the PeopleSoft ChartField structure and discusses:

- Implementation recommendations and clarifications of the Chart of Accounts process.
- Synchronizing the Chart of Accounts process flow.
- Application interfaces for the COA synchronization process.
- Core AIA components.
- Data requirements.
- Integration services detail.

Process Integration for Synchronizing Charts of Accounts Overview

The E-Business Suite Chart of Accounts (COA) is part of the initial configuration required for this integration. After the COA is created within E-Business Suite, each Value Set and segment combination must be mapped with a corresponding setID and ChartField combination from PeopleSoft. This mapping is required for the transformation of accounting entries into PeopleSoft journal entries.

A domain value map (DVM) is delivered to store mapping between E-Business Suite Value Set and segment combinations and PeopleSoft setID and ChartField combinations. The mapping between E-Business Suite and PeopleSoft objects in the DVM is maintained in both PeopleSoft DVMs and the AIA layer DVMs.

E-Business Suite provides an interface table to store data that is received from PeopleSoft. Once all initial setup is complete and DVMs are updated, any published COA data from PeopleSoft ultimately invokes the SyncAccountGLElementValueSetListEbizProvABCSImpl, which calls the APIs to insert new COA values and update existing COA values within E-Business Suite.

For more information, see Mapping SetID and ChartField to Value Set and Synchronizing and Updating Value Sets with PeopleSoft ChartFields.

Implementation Recommendations and Clarifications of the Chart of Accounts Process

The Implementation recommendations and clarifications of the chart of accounts integration between Financials Accounting Hub and PeopleSoft GL are:

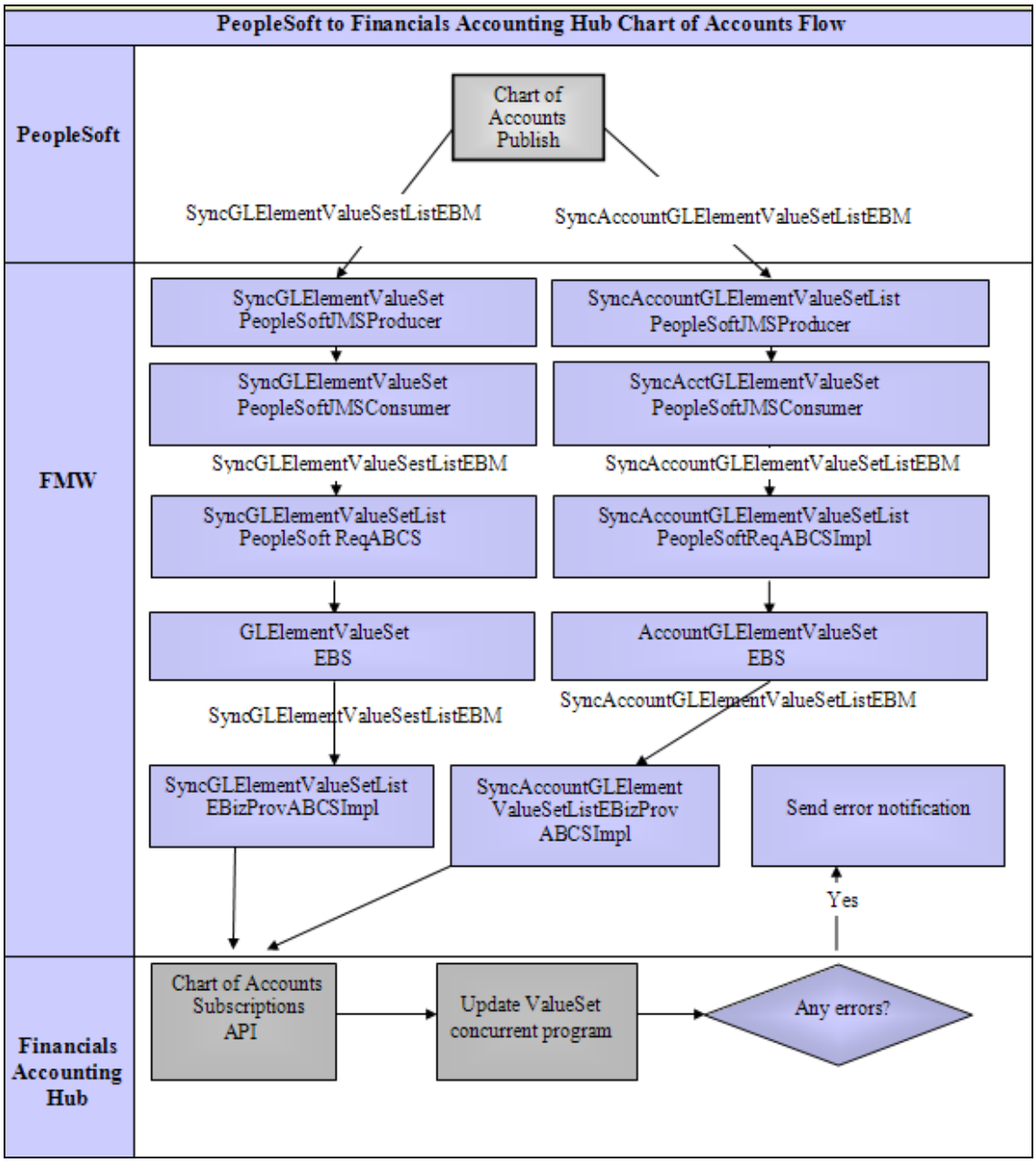
- You set up ValueSets manually in Financials Accounting Hub to match the ChartField setup in PeopleSoft. You also manually set up other high-level components, such as E-Business

Suite COA structures and ledgers, to match PeopleSoft setup for the concatenated business unit and ledger common values.

- You manually maintain Domain Value Mapping (DVM) of PeopleSoft SetID and ChartField Name combination to E-Business Suite ValueSet Name using the Enterprise Component Application Integration Architecture DVM pages on the PeopleSoft side. Additionally, you must set up the corresponding AIA DVM. Finalize these tasks before you generate any transactions.
- E-business Suite consumes the Value Set message from PeopleSoft and adds or updates the new values from PeopleSoft if they do not already exist in the E-Business Suite system.
- Do not change PeopleSoft setID assignments within TableSet controls of ChartFields by business unit. Although you can change Value Sets in Financials Accounting Hub and setIDs in PeopleSoft, doing so creates reporting difficulties and synchronization problems.
- Financials Accounting Hub enforces only the most recent effective date ranges. It does not use multiple effective-dated rows or versions for the same chart of accounts.
- The root element of the messages that are published from PeopleSoft to AIA has a different namespace than that on the EBM; therefore, a transformation occurs on the AIA layer to match the namespace before those messages are consumed.

Synchronizing Chart of Accounts Process Flow

This diagram shows the synchronization of the Financials Accounting Hub Chart of Accounts process:



Financials Accounting Hub to PeopleSoft GL Chart of Accounts synchronization

The following services are delivered for synchronizing the Financials Accounting Hub Value Set and segment with the PeopleSoft setID and ChartField values portion of this process:

- SyncGLElementValueSetPeopleSoftJMSProducer
- SyncGLElementValueSet PeopleSoftJMSConsumer
- SyncGLElementValueSetListPeopleSoftReqABCSImpl
- GLElementValueSetEBS
- SyncGLElementValueSetListEbizProvABCSImpl

The following services are delivered for synchronizing the Financials Accounting Hub Account Segment values with the PeopleSoft Account ChartField values portion of this process:

- SyncAccountGLElementValueSetListPeopleSoftJMSProducer
- SyncAcctGLElementValueSetPeopleSoftJMSConsumer
- SyncAccountGLElementValueSetListPeopleSoftReqABCSImpl
- AccountGLElementValueSetEBS
- SyncAccountGLElementValueSetListEbizProvABCSImpl

When this process is initiated, the following events occur for all ChartFields except Account:

- Changes to the PeopleSoft ChartFields are published to the PeopleSoft ChartField ABM.
- PeopleSoft IB transforms the PeopleSoft ChartField ABM into the SyncGLElementValueSetListEBM and publishes it to the SyncGLElementValueSetPeopleSoftJMSProducer, which stages the message in the JMS queue.
- This message is picked up by the SyncGLElementValueSetPeopleSoftJMSConsumer and published to the SyncGLElementValueSetListPeopleSoftReqABCSImpl.
- The SyncGLElementValueSetListPeopleSoftReqABCSImpl then takes the PeopleSoft SyncGLElementValueSetListEBM with the GLElementValueSetEBO and calls the GLElementValueSetEBS.
- The GLElementValueSetEBS publishes the ChartFields to the SyncGLElementValueSetListEbizProvABCSImpl, which triggers the E-Business Suite API, the GL_COA_VALUES_SUBSCRIPTION_API.

When this process is initiated, the following events occur for the Account ChartField:

1. Changes to the PeopleSoft Account ChartFields are published to the PeopleSoft Account ChartField ABM to PeopleSoft IB.
2. PeopleSoft IB transforms the PeopleSoft Account ChartField ABM into the SyncAccountGLElementValueSetListEBM.
3. PeopleSoft IB publishes the SyncAccountGLElementValueSetListEBM to the SyncAccountGLElementValueSetListPeopleSoftJMSProducer, which stages the message in the JMS queue.
4. This message is picked up by the SyncAcctGLElementValueSetPeopleSoftJMSConsumer and is published to the SyncAccountGLElementValueSetListPeopleSoftReqABCS.
5. The SyncAccountGLElementValueSetListPeopleSoftReqABCSImpl then takes the PeopleSoft SyncAccountGLElementValueSetListEBM with the GLAccountElementValueSet EBO and calls the AccountGLElementValueSetEBS.
6. The AccountGLElementValueSetEBS publishes the ChartFields to SyncAccountGLElementValueSetListEbizProvABCSImpl, which triggers the E-Business Suite GL_COA_VALUES_SUBSCRIPTION_API.
7. When the SyncAccountGLElementValueSetListEbizProvABCSImpl service is invoked by new published data from PeopleSoft, it calls the following APIs, which load new values and update existing values to E-Business Suite:

- GL_COA_SEG_VAL_IMP_PUB.COA_SEGMENT_VAL_IMP
- Segment Value Inheritance

In case of errors, a mail notification is sent.

Note: In Microsoft Windows, if the SyncGLElementValueSet or the SyncAccountGLElementValueSet flows fail due to a binding fault, open the ACCOUNTGLELEMENTVALUESET_ACCOUNT_TYPE_CODEDVM from the ESB console and click the Save button. This action should correct the problem. The error is encountered in the BPEL process: "ORABPEL-08034 JTA Rollback requested. *The current JTA transaction has been aborted due to rollback request received from partner invocation."*

Application Interfaces for the COA Synchronization Process

The PeopleSoft application interfaces for the COA synchronization process are:

Application Interface	Process
SyncAccountGLElementValueSetListPeopleSoftReqABCSImpl (outbound) SyncGLAcctValueSetEBM.V1.xsd SyncGLAcctValueSetEBM.V11.xsd	ALTACCT_CF_SYNC ALTACCT_CF_SYNC_EFF ALTACCT_CF_FULLSYNC_EFF DEPT_SYNC DEPT_SYNC_EFF DEPT_FULLSYNC_EFF OPER_UNIT_CF_SYNC OPER_UNIT_CF_SYNC_EFF OPER_UNIT_CF_FULLSYNC_EFF PRODUCT_CF_SYNC PRODUCT_CF_SYNC_EFF PRODUCT_CF_FULLSYNC_EFF FUND_CF_SYNC FUND_CF_SYNC_EFF FUND_CF_FULLSYNC_EFF CLASS_CF_SYNC CLASS_CF_SYNC_EFF CLASS_CF_FULLSYNC_EFF PROGRAM_CF_SYNC PROGRAM_CF_SYNC_EFF PROGRAM_CF_FULLSYNC_EFF BUDGET_REF_CF_SYNC BUDGET_REF_CF_SYNC_EFF BUDGET_REF_CF_FULLSYNC_EFF CHARTFIELD1_SYNC CHARTFIELD1_SYNC_EFF CHARTFIELD1_FULLSYNC_EFF CHARTFIELD2_SYNC CHARTFIELD2_SYNC_EFF CHARTFIELD2_FULLSYNC_EFF

Application Interface	Process
	CHARTFIELD3_SYNC CHARTFIELD3_SYNC_EFF CHARTFIELD3_FULLSYNC_EFF PROJECT_SYNC PROJECT_SYNC_EFF PROJECT_FULLSYNC_EFF Invokes the synchronization of Account values between PeopleSoft and Financials Accounting Hub.
SyncGLElementValueSetListPeopleSoftReqABCSImpl (outbound) SyncGLValueSetEBM.V1.xsd SyncGLValueSetEBM.V11.xsd	ACCOUNT_CF_SYNC ACCOUNT_CF_SYNC_EFF ACCOUNT_CF_FULLSYNC_EFF Invokes the synchronization of ChartField values (other than Account) between PeopleSoft and Financials Accounting Hub.

The E-Business Suite application interfaces for the COA synchronization process are:

Application Interface	Process
SyncAccountGLElementValueSetListEbizProvACBSImpl SyncGLElementValueSetListEbizProvACBSImpl APPS_GL_COA_SEG_VAL_IMP_PUB_COA_SEGMENT_VAL_IMP.xsd	GL_COA_SEG_VAL_IMP_PUB.COA_SEGMENT_VAL_IMP

Core AIA Components

The chart of accounts integration uses the following core AIA components:

- GLAccountElementValueSetEBO
- SyncAccountGLElementValueSetListEBM
- AccountGLElementValueSetEBS
- GLElementValueSetEBO
- SyncGLElementValueSetListEBM
- GLElementValueSetEBS

For more information, see Core AIA Components for location details.

Data Requirements

This table lists the AIA DVMs required for synchronization of chart of accounts:

AIA DVM	Description
(2) ACCOUNTGLELEMENTVALUESET_ACCOUNT_TYPE_CODE	Maps E-Business Suite account type code to PeopleSoft account type code.
(2) VALUESET_NAME	Maps E-business Suite Value Set to PeopleSoft setID and ChartField.
(2) APPS_USER	Maps E-Business Suite applications user to EBM LangCode.
GLELEMENTVALUESET_CONTROL_ACCOUNT_INDICATOR_TYPE	Maps PeopleSoft control account indicator to E-Business Suite indicator to apply to ValueSets.

(2) See DVMs with corresponding PeopleSoft DVMs.

For more information, see AccountTypeDVM and ChartfieldValueSetDVM.

Mapping Details

GLELEMENTVALUESET_CONTROL_ACCOUNT_INDICATOR_TYPE AIA DVM maps an E-Business Suite indicator to designate whether a PeopleSoft account is a control account or not:

Common	EBIZ_01
True	Y
False	N

This DVM need not be updated. PeopleSoft sends the control account indicator for a given ValueSet as either true or false. E-Business Suite uses a Y or N to read this indicator for proper designation of accounts in the Financials Accounting Hub entries.

Integration Services Detail

This section discusses details about the following services that are delivered for this process:

- SyncGLElementValueSetPeopleSoftJMSProducer
- SyncGLElementValueSetPeopleSoftJMSConsumer
- SyncGLElementValueSetListPeopleSoftReqABCSImpl
- GLElementValueSet EBS

- SyncGLElementValueSetListEbizProvABCSImpl
- SyncAccountGLElementValueSetListPeopleSoftJMSProducer
- SyncAcctGLElementValueSetPeopleSoftJMSConsumer
- SyncAccountGLElementValueSetListPeopleSoftReqABCSImpl
- AccountGLElementValueSetEBS
- SyncAccountGLElementValueSetListEbizProvABCSImpl

SyncGLElementValueSetPeopleSoftJMSProducer

Back to process flow

The SyncGLElementValueSetPeopleSoftJMSProducer service is a BPEL process. PeopleSoft invokes this service when:

- A new ChartField value (other than Account) is created.
- An existing ChartField value (other than Account) is updated.

This service populates the JMSCorrelationID and puts the message in the AIA_VALUESETJMSQUEUE.

SyncGLElementValueSetPeopleSoftJMSConsumer

The SyncGLElementValueSetPeopleSoftJMSConsumer is an ESB service. It has a JMS adapter called SyncGLElementValueSetPeopleSoftJMSConsumer. This adapter listens to the AIA_VALUESETJMSQUEUE and picks up the messages whose JMSCorrelationID is SYNC.

The system invokes the SyncGLElementValueSetListPeopleSoftReqABCSImpl with the SyncGLElementValueSetListEBM.

SyncGLElementValueSetListPeopleSoftReqABCSImpl

Back to process flow

The SyncGLElementValueSetListPeopleSoftReqABCSImpl is an ESB service that is invoked after non-account ChartFields are created, and updated by PeopleSoft to synchronize ChartFields in PeopleSoft with GL Element ValueSets in Financials Accounting Hub.

The SyncGLElementValueSetListPeopleSoftReqABCSImpl service:

- Adds the GLElementValueSet EBO header level details.
- Publishes the PeopleSoft SyncGLElementValueSetListEBM.

You can use the Integration Scenario Summary page in the Oracle AIA Console to search for and view integration scenarios that utilize a particular ABCS.

For more information, see *Oracle Application Integration Architecture - Core Components Guide,* “Using the BSR,” Using the BSR UI to View Integration Scenarios.

GLElementValueSetEBS

Back to process flow

The GLElementValueSetEBS is an ESB service that is invoked by the SyncGLElementValueSetListPeopleSoftReqABCSImpl to synchronize GL Element ValueSets in Financials Accounting Hub with the ChartFields in PeopleSoft.

It serves as routing point for the GLElementValueSetEBM input from the requestor application ABCS to the provider application ABCS.

You can use the Integration Scenario Summary page in the Oracle AIA Console to search for and view integration scenarios that utilize a particular ABCS.

SyncGLElementValueSetListEbizProvABCSImpl

Back to process flow

Back to interfaces

The SyncGLElementValueSetListEbizProvABCSImpl is a BPEL service that provides a list operation whereby multiple COA segment values can be sent at once and the values are synchronized (added or updated) in E-Business Suite.

This service is also used for synchronizing the chart of account segment values between the two systems.

You can use the Integration Scenario Summary page in the Oracle AIA Console to search for and view integration scenarios that utilize a particular ABCS.

For more information, see *Oracle Application Integration Architecture - Core Components Guide,* "Using the BSR," Using the BSR UI to View Integration Scenarios.

SyncAccountGLElementValueSetListPeopleSoftJMSProducer

Back to process flow

The SyncAccountGLElementValueSetListPeopleSoftJMSProducer service is a BPEL process. PeopleSoft invokes this service when:

- A new Account ChartField value is created.
- An existing Account ChartField value is updated.

This service populates the JMSCorrelationID and puts the message in the AIA_ACCTVALUESETJMSQUEUE.

SyncAcctGLElementValueSetPeopleSoftJMSConsumer

The SyncAcctGLElementValueSetPeopleSoftJMSConsumer is an ESB service. It has a JMS adapter called SyncAcctGLElementValueSetPeopleSoftJMSConsumer. This adapter listens to the AIA_ACCTVALUESETJMSQUEUE and picks up the messages whose JMSCorrelationID is SYNC.

The system invokes the SyncAccountGLElementValueSetListPeopleSoftReqABCSImpl with the SyncGLElementValueSetListEBM.

SyncAccountGLElementValueSetListPeopleSoftReqABCSImpl

Back to process flow

Back to interfaces

The SyncAccountGLElementValueSetListPeopleSoftReqABCSImpl is a BPEL service that is invoked after the Account ChartFields are created or updated by PeopleSoft in order to synchronize ChartFields in PeopleSoft with Account ValueSets in E-Business Suite.

The SyncAccountGLElementValueSetListPeopleSoftReqABCSImpl service:

- Adds the GLAccountElementValueSetEBO header level details.
- Publishes the PeopleSoft SyncAccountGLElementValueSetList EBM.

AccountGLElementValueSetEBS

Back to process flow

The AccountGLElementValueSetEBS is an ESB service that is invoked by the SyncAccountGLElementValueSetListPeopleSoftReqABCSImpl in order to synchronize GL Account Element ValueSets in E-Business Suite with the ChartFields in PeopleSoft.

SyncAccountGLElementValueSetListEbizProvABCSImpl

Back to process flow

Back to interfaces

The SyncAccountGLElementValueSetListEbizProvABCSImpl is a BPEL service whereby multiple COA segment values are sent from E-Business Suite and synchronized with PeopleSoft ChartField values.

You can use the Integration Scenario Summary page in the Oracle AIA Console to search for and view integration scenarios that utilize a particular ABCS.

For more information, see *Oracle Application Integration Architecture - Core Components Guide,* “Using the BSR,” Using the BSR UI to View Integration Scenarios.

Chapter 6: Validating Financials Accounting Hub Chart of Accounts Combinations for the Financials Accounting Hub to PeopleSoft GL Integration

This chapter provides an overview of the process integration for validation of E-Business Suite chart of accounts combinations using PeopleSoft's ChartField combination editing and discusses:

- Implementation recommendations and clarifications of the Combination Validation process.
- Validating chart of accounts combinations process flow.
- Application interfaces.
- Core AIA components.
- Data requirements.
- Mapping details.
- Integration services detail.

Process Integration for Validating Charts of Accounts Overview

During the Create Accounting process, Financials Accounting Hub validates each unique chart of accounts (COA) segment value combination for an accounting date. Financials Accounting Hub publishes the valid combinations to PeopleSoft for validation. PeopleSoft provides information as to whether the combination is valid or not. A single published message can contain numerous combinations to be validated at once.

If all lines pass the validation process, a success indicator is returned to Financials Accounting Hub. If individual lines are found to be invalid, they are sent to Financials Accounting Hub with an invalid indicator. Financials Accounting Hub then removes those lines from the pool of accounting entries to be published to PeopleSoft. The next time the Create Accounting program is run, the document is reprocessed. If the Create Accounting program is successful, the error is removed.

Financials Accounting Hub also posts error lines to the suspense account, ensuring that suspense posting does not create any intercompany accounting entries. When the suspense account code is defined for the ledger in Financials Accounting Hub, error account codes are replaced with the suspense account, and accounting entries are generated. If the balancing segment value of the error account code is different from the balancing segment value of the suspense account, then the Financials Accounting Hub uses the balancing segment value from the error account code. The remaining segments are from the suspense account.

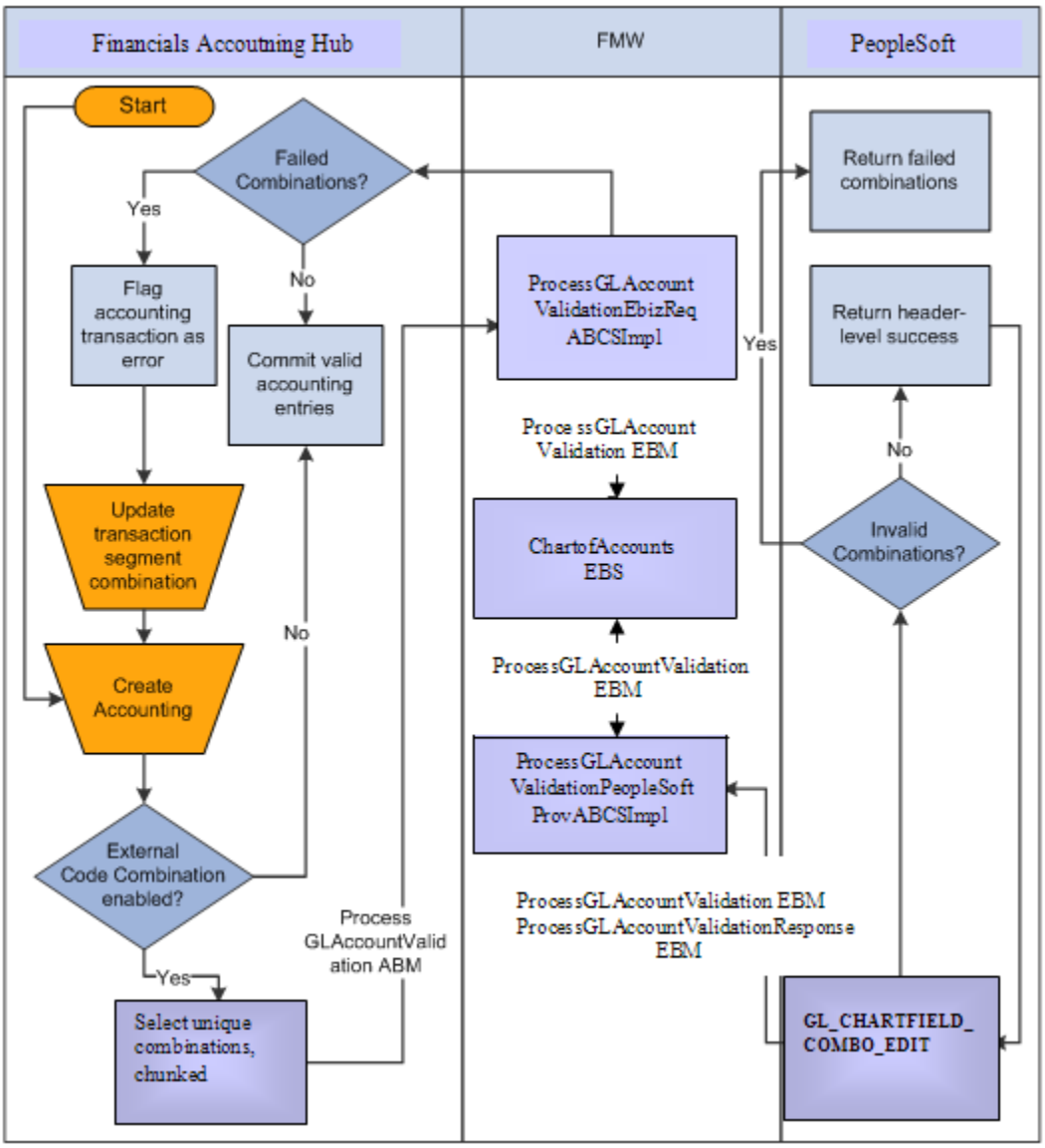
Implementation Recommendations and Clarifications of the Combination Validation Process

The implementation recommendations and clarifications of the COA validation and combination editing integration between Financials Accounting Hub and PeopleSoft GL are:

- PeopleSoft interprets the combo edit rules to provide a listing of valid accounts per ledger.
- Do not manually add account combinations to the Financials Accounting Hub account tables.

Validating Chart of Accounts Combinations Process Flow

This diagram shows the Validation of the Chart of Accounts Combinations process flow:



Financials Accounting Hub to PeopleSoft GL Chart of Accounts Values and Combinations Validation

These services are delivered for validating the Financials Accounting Hub Chart of Accounts combinations against the PeopleSoft ChartField combinations:

- ProcessGLAccountValidationEbizReqABCSImpl
- ChartOfAccounts EBS
- ProcessGLAccountValidationPeopleSoftProvABCSImpl

These events occur during the Chart of Accounts values and combination validation process:

1. The Create Accounting program selects all unaccounted accounting events and generates accounting entries.

2. Financials Accounting Hub publishes to the PeopleSoft web service, GL_CHARTFIELD_COMBO_EDIT, the distinct code combinations that are used in the most recent run of accounting entries. If all the combinations are valid, the process returns a single success message. If any validations fail, they are returned as failures.
3. The ProcessGLAccountValidation payload message is transformed into the ProcessGLAccountValidationEBM (encapsulating the ChartOfAccountsEBO) and calls the ChartOfAccountsEBS.
4. The ChartOfAccountsEBS sends the ProcessGLAccountValidationEBM request to ProcessGLAccountValidationPeopleSoftProvABCSImpl.
5. The ProcessGLAccountValidationPeopleSoftProvABCSImpl sends the ProcessGLAccountValidationEBM to the GL_CHARTFIELD_COMBO_EDIT web service.
6. When the combination validation is complete on the PeopleSoft side, it returns combination validation results using the ProcessGLAccountValidationResponseEBM and communicates them back to the ProcessGLAccountValidationPeopleSoftProvABCSImpl.
7. The ProcessGLAccountValidationPeopleSoftProvABCSImpl sends the response to the ChartOfAccountsEBS.
8. The ChartOfAccountsEBS sends the ProcessGLAccountValidationResponseEBM to the ProcessGLAccountValidationEbizReqABCSImpl.
9. The ProcessGLAccountValidationEbizReqABCSImpl transforms the ProcessGLAccountValidationResponse EBM into the ABM and returns the payload to Create Accounting.
10. If the suspense account is defined for the ledger, then Financials Accounting Hub posts the error lines to the suspense account.
11. If the suspense account is not defined, then Financials Accounting Hub removes the invalid lines from the pool of accounting entries to be published to PeopleSoft.
12. The Create Accounting program reprocesses invalid lines the next time it is run. If the Create Accounting process is successful, the error is removed.

Application Interfaces

The PeopleSoft application interfaces for the COA combination validation process are:

Application Interface	Process
ProcessGLAccountValidationPeopleSoftProvABCSImpl (inbound) ChartFieldComboEditReq.V1.xsd ChartFieldComboEditRes.V1.xsd GL_CHARTFIELD.1.wsdl	GL_CHARTFIELD_COMBO_EDIT Validates chart of accounts combinations for systems and products that run outside of the financials core database (in this case, Financials Accounting Hub).

The E-Business Suite application interfaces for the COA synchronization process are:

Application Interface	Process
ProcessGLAccountValidationEbizReqABCSImpl	FSAH Process GLAccountValidation API

Application Interface	Process
ChartOfAccountsABM.xsd ChartOfAccountsABO.xsd	Invokes the process that submits a request to PeopleSoft to validate the chart of account segment combinations for Financials Accounting Hub.

Core AIA Components

The COA combination validation integration uses the following core AIA components:

- ChartOfAccountsEBO
- ProcessGLAccountValidationEBM
- ProcessGLAccountValidationResponseEBM
- ChartOfAccountsEBS

For more information about location details, see Core AIA Components.

Data Requirements

This table lists the AIA DVMs that are required for validation of chart of accounts combinations:

AIA DVM	Description
(1) CHARTOFACCOUNTS_GLELEMENT	Maps E-Business Suite segment to a PeopleSoft ChartField.
(1) BUSINESS_UNIT	Maps E-Business Suite ledger to a PeopleSoft Business Unit & Ledger combination.
CHARTOFACCOUNTS_NAME	Maps E-business Suite LedgerID-COA name to PeopleSoft ledger for a business unit.
EBIZ_SEGMENT_DEFAULT_VALUES	Maps E-business Suite default segment values to single space (null) values for PeopleSoft.

(1) Corresponding PeopleSoft DVMs.

For more information, see ChartFIeldDVM and BULedgerDVM.

Mapping Details

The tables in this section represent examples of the DVMs that reside within the AIA layer to synchronize information between Financials Accounting Hub and PeopleSoft for combination editing.

CHARTOFACCOUNTS_GLELEMENT AIA DVM maps the E-Business Suite segment to a PeopleSoft ChartField common code:

PSFT_01	Common	EBIZ_01
CHARTFIELD1	CF001	54670-SEGMENT4
DEPTID	CF002	54670-SEGMENT3
ACCOUNT	CF003	54670-SEGMENT2

For more information, see corresponding PeopleSoft DVM: ChartFIeldDVM.

EBIZ_SEGMENT_DEFAULT_VALUES AIA DVM maps the default E-Business Suite segment value to a PeopleSoft null value (always represented by a single space on PeopleSoft tables):

DEFAULT_VALUE	SEGMENT
999	54670-SEGMENT4
0001	54670-SEGMENT3

The E-Business Suite default values in each segment are user-defined, whereas PeopleSoft ChartField default values are represented by a single space within PeopleSoft tables. As the E-Business Suite default segment value cannot be defined as a null value, this DVM is needed to convert the E-Business Suite segment default value to a single space in order to be successfully transferred to PeopleSoft.

CHARTOFACCOUNTS_NAME AIA DVM maps the E-business Suite LedgerID-COA name to the common code for the PeopleSoft ledger for a business unit:

COMMON	EBIZ_01
LED01	2816-FSAH
LED02	2818-FSAH
LED03	2819-FSAH

The BUSINESS_UNIT AIA DVM maps the E-Business Suite ledger to a concatenated PeopleSoft Business Unit and Ledger value:

PSFT_01	COMMON	EBIZ_01
US001::LOCAL	LED01	US_001
US001::EURO	LED02	US_001RL
CAN01::LOCAL	LED03	CAN_01

For more information, see Ledgers and Business Units.

Integration Services Detail

This section describes the following services that are delivered for this process:

- ProcessGLAccountValidationEbizReqABCSImpl
- ChartOfAccounts EBS
- ProcessGLAccountValidationPeopleSoftProvABCSImpl

ProcessGLAccountValidationEbizReqABCSImpl

Back to process flow

Back to interfaces

The ProcessGLAccountValidationEbizReqABCSImpl is a BPEL service that initiates the chart of account combination validation process between Financials Accounting Hub and PeopleSoft. Business validation errors are returned by the ProcessGLAccountValidation EBS.

The Create Accounting program selects all unaccounted accounting events and generates accounting entries.

Financials Accounting Hub publishes the distinct code combinations that are used in the accounting entries from the Create Accounting program to the PeopleSoft web service, GL_CHARTFIELD_COMBO_EDIT, through AIA for validation.

The ProcessGLAccountValidationEbizReqABCSImpl service:

- Submits a request to PeopleSoft to validate the segment combinations for Financials Accounting Hub.
- Transforms the Financials Accounting Hub ProcessGLAccountValidation payload message into the ProcessGLAccountValidationEBM, which extends the ChartOfAccountsEBO.
- Invokes the Process GLAccountValidationEBS, sending the ProcessGLAccountValidation EBM to process the chart of accounts combination validation.
- Receives notification of business validation results and errors that are returned by the EBS using the ProcessGLAccountValidationResponseEBM. Results include date, Header level Validation Status (True/False), code combination identifier and validation status (valid or invalid.)

You can use the Integration Scenario Summary page in the Oracle AIA Console to search for and view integration scenarios that utilize a particular ABCS.

For more information, see *Oracle Application Integration Architecture - Core Components Guide,* "Using the BSR," Using the BSR UI to View Integration Scenarios.

ChartOfAccountsEBS

Back to process flow

The ChartOfAccountsEBS is an ESB service that sends the message from Financials Accounting Hub to PeopleSoft for validation of ChartField combinations.

The ChartOfAccountsEBS:

- Is called by the ProcessGLAccountValidationEbizReqABCSImpl.
- Receives the ProcessGLAccountValidationEBM, which includes the ChartOfAccountsEBO.
- Sends the ProcessGLAccountValidationEBM to the ProcessGLAccountValidationPeopleSoftProvABCSImpl service for validation. If the Segment to ChartField mapping is not configured and stored, then the EBS will not be able to send the ProcessGLAccountValidationEBM to PeopleSoft.
- Returns the ProcessGLAccountValidationResponseEBM with notification of validation results to the ProcessGLAccountValidationEbizReqABCSImpl.

You can use the Integration Scenario Summary page in the Oracle AIA Console to search for and view integration scenarios that utilize a particular ABCS.

For more information, see *Oracle Application Integration Architecture - Core Components Guide,* "Using the BSR," Using the BSR UI to View Integration Scenarios.

ProcessGLAccountValidationPeopleSoftProvABCSImpl

Back to process flow

The ProcessGLAccountValidationPeopleSoftProvABCSImpl is a BPEL service that publishes Financials Accounting Hub chart of accounts combination information to PeopleSoft for ChartField combination validation.

The ProcessGLAccountValidationPeopleSoftProvABCSImpl:

- Is called by the ChartOfAccountsEBS.
- Receives the ProcessGLAccountValidation EBM, which extends the ChartOfAccounts EBO and publishes the ProcessGLAccountValidation EBM to the PeopleSoft Code Combination Validate API, GL_CHARTFIELD service, GL_CHARTFIELD_COMBO_EDIT service operation.
- Returns a notification of validation results in the ProcessGLAccountValidationResponse EBM to the ChartOfAccounts EBS.

You can use the Integration Scenario Summary page in the Oracle AIA Console to search for and view integration scenarios that utilize a particular ABCS.

For more information, see *Oracle Application Integration Architecture -- Core Components Guide,* "Using the BSR," Using the BSR UI to View Integration Scenarios.

Chapter 7: Transforming Financials Accounting Hub Accounting Entries to PeopleSoft GL Journals

This chapter provides an overview of the process integration for transferring accounting entries from Financials Accounting Hub and posting them as journal entries to PeopleSoft GL and discusses:

- Implementation recommendations and clarifications of the Accounting Entry process.
- Transfer accounting entries from Financials Accounting Hub to PeopleSoft process flow.
- Application interfaces for posting Financials Accounting Hub entries to PeopleSoft.
- Core AIA components.
- Data requirements.

Integration for Posting Financials Accounting Hub Entries to PeopleSoft GL Overview

PeopleSoft GL delivers an accounting entry staging table to be used exclusively by Financials Accounting Hub for this process. After all setup is complete as described in this guide, the Financials Accounting Hub accounting entries are transformed and transferred using the AIA DVMs by an ODI process into the PS_FSAH_ACTG_LN table in PeopleSoft. When that process is complete, the PeopleSoft Journal Generator process creates GL journals from the Financials Accounting Hub accounting entries.

For more information, see Appendix - Accounting Entry Interface Table for a description of columns in the PS_FSAH_ACTG_LN record.

Implementation Recommendations and Clarifications of the Accounting Entry Process

The implementation recommendations and clarifications of the integration process for posting Financials Accounting Hub accounting entries to PeopleSoft GL are:

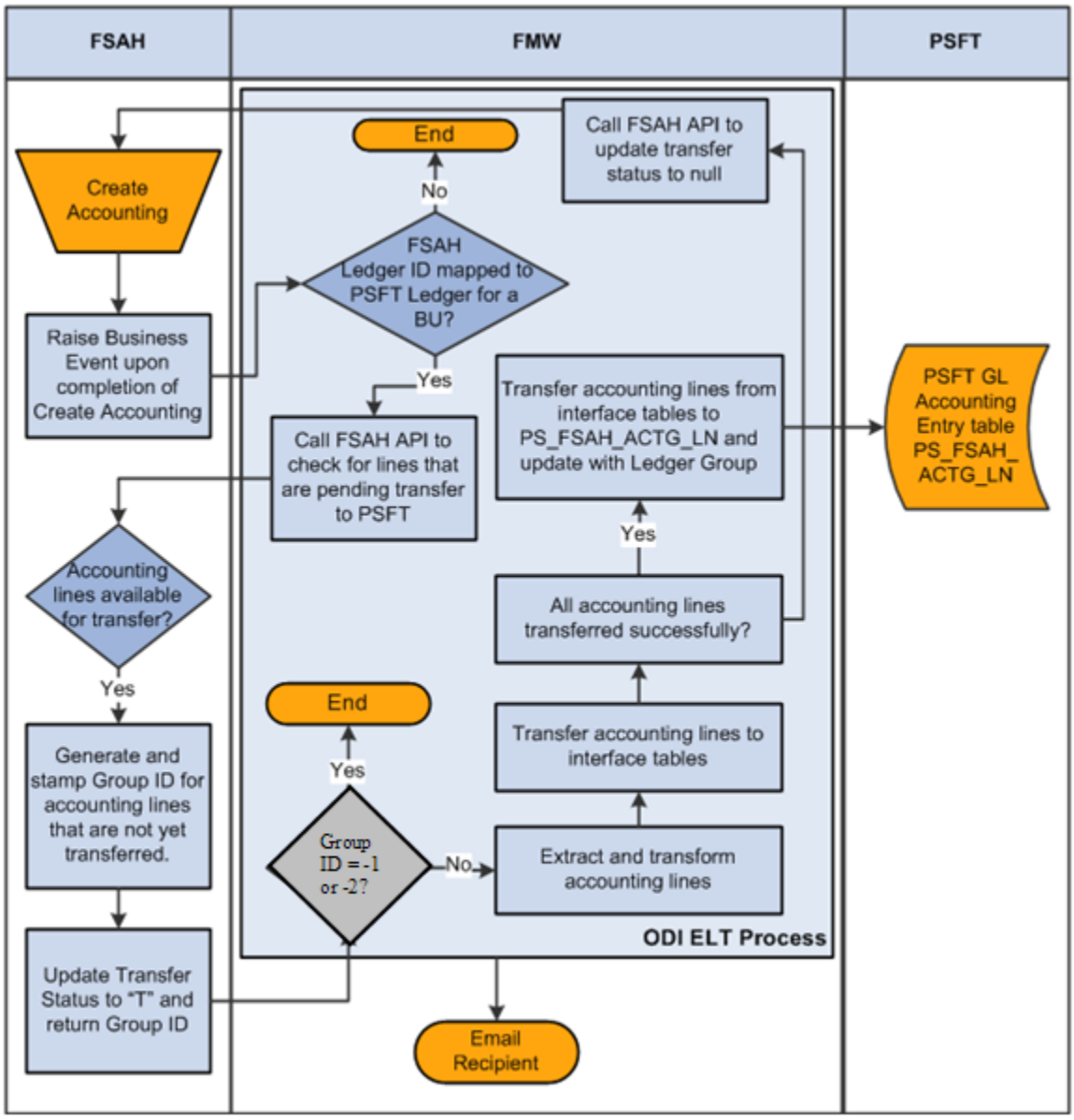
- All GL journals are created, posted, and unposted from PeopleSoft GL.
- Adjusting period accounting entries must be created in Financials Accounting Hub. Adjusting period journals should be booked directly in PeopleSoft GL.
- Set up Journal Generator options to determine whether to suspense, process, roll periods forward, or raise exceptions and define summarization within Journal Generator.
- All application setup and DVM synchronization of data is complete as described in previous

chapters. ODI is installed and configured. and Journal Generator options have been selected.

For more information, see Configuring Oracle Data Integrator and Setting Up Journal Generator for Financials Accounting Hub Entries. See also Assumptions and Constraints: Accounting Entry Integration from Financials Accounting Hub to PeopleSoft GL.

Transfer Accounting Entries from Financials Accounting Hub to PeopleSoft Process Flow

This diagram shows the integration process of Financials Accounting Hub accounting entries to PeopleSoft GL:



Financials Accounting Hub to PeopleSoft GL Transfer Accounting Entries

The following solutions are delivered for transferring Financials Accounting Hub accounting entries to PeopleSoft GL journal entries:

- The Financials Accounting Hub Create Accounting program
- ODI ELT tool (FMW layer)
- PeopleSoft Journal Generator

After the source systems process business transactions and create accounting events in Financials Accounting Hub, the following events occur:

1. The Financials Accounting Hub Create Accounting program creates accounting lines based on the rules that are defined within Financials Accounting Hub. When final accounting is complete, the program raises a business event and the Financials Accounting Hub accounting lines await polling in the XLA_JE_EXTRACT_V table for processing to PeopleSoft GL.
2. The Oracle ODI ELT tool subscribes to the business event that the Create Accounting program raises. After ODI determines if the Ledger ID is mapped to a PeopleSoft business unit and ledger, it calls the FSAH Check Lines API to evaluate the pending accounting lines for transfer availability.
3. If it is mapped, then ODI calls the FSAH Generate and Stamp Group ID API, which checks pending accounting entries in Financials Accounting Hub that have not been transferred and stamps them with the appropriate GroupID.
4. If no accounting entries are pending transfer to PeopleSoft GL, then the FSAH API returns a Group ID of –1, which conveys to AIA that no records are available to transfer to PeopleSoft GL. If the given entries are invalid, the FSAH API returns –2. If the Group ID is not equal to –1 or –2, then ODI extracts all accounting lines associated with the Group ID and transforms them to the PeopleSoft structure.
5. ODI performs key data transformations, such as EBiz ledger to PeopleSoft ledger and EBiz COA segments to PeopleSoft ChartFields, based on DVMs in the AIA integration layer.
6. If the data transformation fails for one or more accounting lines, then ODI does not transfer any of the accounting lines waiting for transfer to Peoplesoft GL. When the data transformation error is fixed, ODI will transfer all the pending accounting lines.
7. After performing data transformation within AIA, ODI populates the PeopleSoft Accounting Entry interface table, PS_FSAH_ACTG_LN, with all extracted accounting lines. If the transfer fails, ODI invokes the FSAH Update GL Transfer Status API, which resets the transfer status of accounting entries to N and the Group ID to null, making the accounting lines eligible for re-transfer. The failed accounting entries are re-extracted the next time that the Create Accounting program is executed. If the transfer is successful, ODI invokes the FSAH Update GL Transfer Status API, which updates the transfer status of accounting entries to Y. Monitor the status of this process using the Oracle Data Integrator Operator.
8. The system populates the Ledger Group field within the PS_FSAH_ACTG_LN record by deriving the value from PeopleSoft based upon the LEDGER and BUSINESS_UNIT_GL fields.
9. If any PeopleSoft journals are deleted, the system resets the GL distribution status flag of the corresponding accounting entry lines to X (Waiting for Reversal). In this way, the accounting lines are not processed by Journal Generator until a reversal is sent to PeopleSoft, at which time ODI resets the GL distribution status from X to N.

10. Upon completion of processing, ODI sends a completion message to the AIA Operations Management Framework only if an error occurred in processing. If no error occurred, then ODI does not send a notification.
11. After ODI extracts, transforms, and loads the accounting lines into the PeopleSoft Accounting Entry interface table, the PeopleSoft Journal Generator processes the accounting entries and populates the Journal Header and Journal Lines tables within PeopleSoft GL, creating journal entries. The journal entries are then edited and posted using the standard business processes.

For more information, see Configuring Oracle Data Integration (ODI).

Application Interfaces for Posting Financials Accounting Hub Entries to PeopleSoft GL

These tables list the PeopleSoft application interfaces that are used for posting Financials Accounting Hub entries to PeopleSoft GL.

This table lists the PeopleSoft application interface that is used in this process:

Application Interface	Description
PeopleSoft Journal Generator	Creates journals from accounting entries from various data sources.

This table lists the E-Business Suite application interfaces that are used in this process:

Application Interface	Description
FSAH Check Lines API	Evaluates the ledger ID of Financials Accounting Hub pending accounting entries to check whether they are mapped to a PeopleSoft business unit and ledger.
Generate and Stamp Group ID API	Checks pending accounting entries in Financials Accounting Hub that have not been transferred, and stamps them with the appropriate GroupID.
Update GL Transfer Status API	Updates transfer status of accounting entries upon transfer from Financials Accounting Hub to PeopleSoft.

Core AIA Components

The Financials Accounting Hub to PeopleSoft GL integration does not use core AIA components.

Data Requirements

All DVMs are required to be in place in the AIA layer and synchronized for the latest data before beginning this process.

For more information, see Domain Value Maps Used in this Process Integration Pack.

This table lists the AIA DVMs that are required for Journal Generator processing of the Financials Accounting Hub accounting entries:

AIA DVM	Description
JGEN_TEMPLATE	Maps the E-Business Suite application short name to the appropriate Journal Generator Template for ODI.

The JGEN_TEMPLATE DVM is leveraged by ODI.

For more information, see Validating and Exporting Domain Value Maps.

Be sure to map each Journal Generator Template that is in use for the Financials Accounting Hub entries. This table presents an example of the JGEN_TEMPLATE DVM:

PSFT_01	Common	EBIZ_01
FSAH_AP	JGT01	SQLAP
FSAH_AR	JGT02	AR

Note: The PSFT_01 value in the JGEN_TEMPLATE DVM is strictly the Journal Generator Template name. Its setID is derived from the Set Control Value that is assigned to the FS_15 Record Group for the GL business unit of the accounting entry.

For more information, see Setting up Journal Generator for Financials Accounting Hub Entries to PeopleSoft GL.

Chapter 8: Synchronizing PeopleSoft GL Journal Delete with Financials Accounting Hub Entry Correction Process

This chapter provides an overview of the process integration for synchronizing PeopleSoft journal delete with Financials Accounting Hub and discusses:

- Implementation recommendations and clarifications of the Journal Delete process.
- Synchronize GL journal delete with Financials Accounting Hub entry process flow.
- Application interfaces for journal delete synchronization.
- Core AIA components.
- Data requirements.
- Integration services details.
- Drillback from PeopleSoft GL to Financials Accounting Hub process flow.

Synchronizing the Journal Delete Process with Financials Accounting Hub Overview

This process is in place in the event that a PeopleSoft journal entry that originates in Financials Accounting Hub is invalid and must be deleted in PeopleSoft GL. This automated process communicates this event to Financials Accounting Hub so that the entry can be reversed and corrected in Financials Accounting Hub and then reprocessed correctly to PeopleSoft GL. This scenario can occur, despite best practices of the synchronization and validation services, due to setup maintenance that might be carried out during transaction activity.

For example, if combo edit rules are modified in PeopleSoft GL after validation occurs from Financials Accounting Hub for a given transfer batch, the account combinations may no longer be valid once that batch is edited in PeopleSoft GL. The account combinations could then fail during PeopleSoft GL journal edit as the combo edit setup at the time of Financials Accounting Hub entry validation is no longer valid.

When errors occur, you must be able to review the source transaction in Financials Accounting Hub before deleting a journal entry. Therefore, this integration delivers the ability to seamlessly drill back from the PeopleSoft GL to the Financials Accounting Hub accounting entry.

Implementation Recommendations and Clarifications of the Journal Delete Process

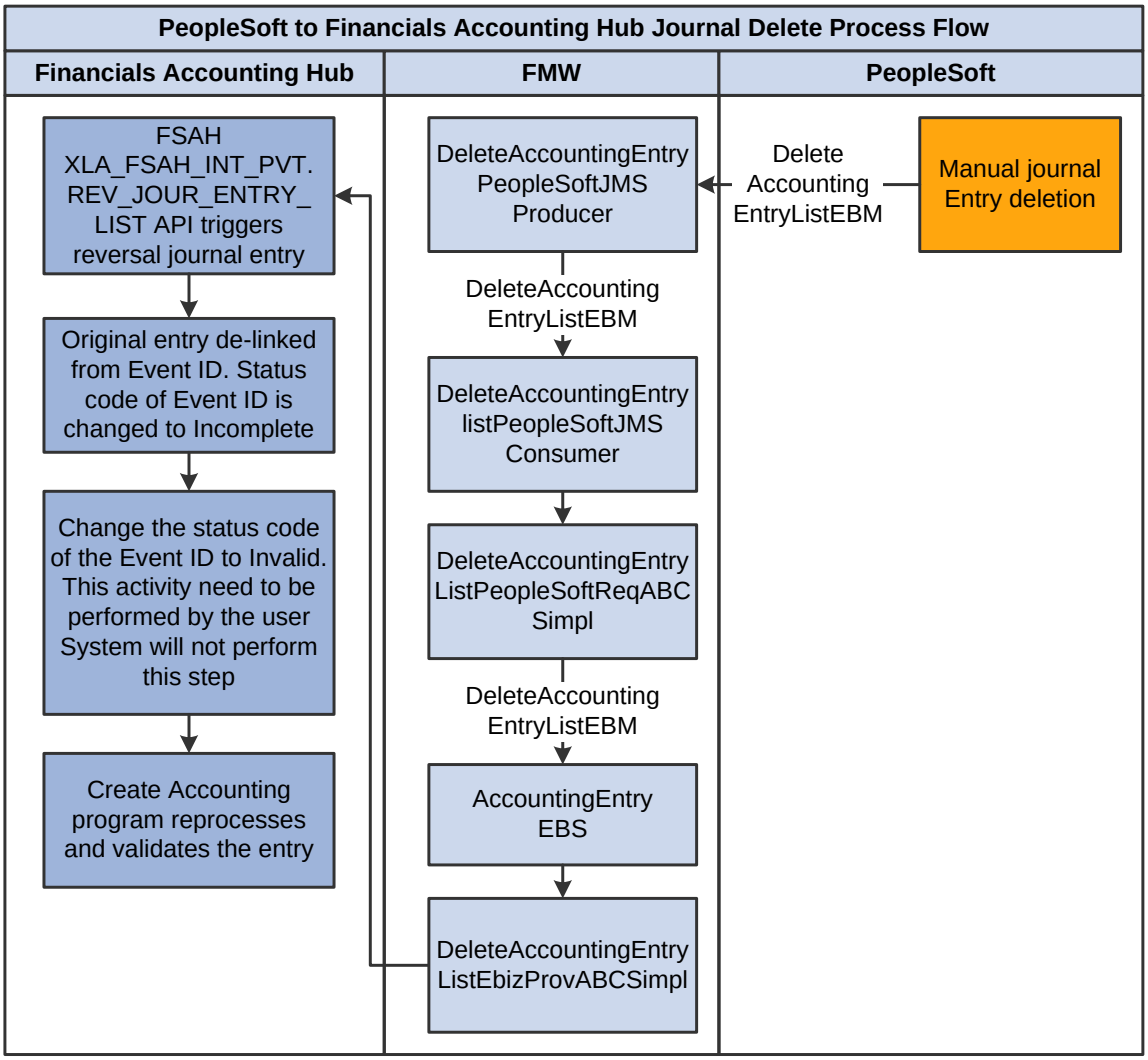
The Implementation recommendations and clarifications of the Journal Delete process are:

- Journals sourced from Financials Accounting Hub cannot be unposted from Financials Accounting Hub.

- The deletion of journals from PeopleSoft GL is a manual process. When a PeopleSoft journal entry with the new integration system source for Financials Accounting Hub, GFH, is deleted using the Journal Lines page, it triggers the synchronization process with Financials Accounting Hub.
- The root element of the messages that are published from PeopleSoft to AIA has a different namespace than that on the EBM; therefore, a transformation occurs on the AIA layer to match the namespace before consuming those messages.

Synchronize GL Journal Delete with Financials Accounting Hub Entry Process Flow

This diagram shows the synchronization of PeopleSoft GL journal delete process.



Financials Accounting Hub to PeopleSoft GL Synchronize GL Journal Delete process

The following services are delivered for synchronizing the GL journal delete from PeopleSoft to Financials Accounting Hub:

- DeleteAccountingEntryPeopleSoftJMSProducer
- DeleteAccountingEntryListPeopleSoftJMSConsumer
- DeleteAccountingEntryListPeopleSoftReqABCSImpl
- AccountingEntryEBS
- DeleteAccountingEntryListEbizProvABCSImpl

The following events cause the synchronize GL Journal delete with Financials Accounting Hub entry process to initiate:

1. When Financials Accounting Hub sends accounting entries to PeopleSoft GL, a journal entry may be invalid for reasons such as a combination edit rule change during transaction processing or open periods are closed between the creation of a detailed entry in Financials Accounting Hub and its transfer to PeopleSoft GL.
2. A PeopleSoft GL accountant manually deletes the invalid journal.

For more information, see Journal Delete.

3. The GL Distribution Status flag of the corresponding accounting entries is reset from D to X.
4. When the journal is deleted, it sends a message with the deleted accounting entry detail to the DeleteAccountingEntryList EBM and publishes the DeleteAccountingEntryList EBM to the DeleteAccountingEntryPeopleSoftJMSProducer, which stages the message in the JMS queue.
5. This message is picked up by the DeleteAccountingEntryListPeopleSoftJMSConsumer and published to the DeleteAccountingEntryListPeopleSoftReqABCSImpl service.
6. The DeleteAccountingEntryListPeopleSoftReqABCSImpl service sends the notification to Financials Accounting Hub by invoking the AccountingEntryEBS. The AccountingEntryEBS receives the message with the information and publishes it to the DeleteAccountingEntryListEbizProvABCSImpl service.
7. The DeleteAccountingEntryListEbizProvABCSImpl service calls the XLA_FSAH_INT_PVT.REV_JOUR_ENTRY_LIST API that processes the automatic reversal of the Financials Accounting Hub accounting entry in order to synchronize with the corresponding deleted PeopleSoft journal entry.
8. In addition to creating reversal entries and sending them to PeopleSoft GL using the accounting entry ODI process, Financials Accounting Hub also de-links the original accounting entry from the Event ID for which the entry is created. Financials Accounting Hub updates the status code of the Event ID to Incomplete. After making the necessary setup changes in FAH, use the Update Event Status API to update the event status code to Unprocessed so as to make the entry eligible for re-processing, during which time the entry is validated against the latest rules.
9. The reversal accounting entries are not immediately sent to the Peoplesoft GL. They will be sent using the accounting entry ODI process when the Create Accounting program processes the next batch of transactions.
10. The Financials Accounting Hub will reverse the entire accounting entry even if the Peoplesoft GL user has deleted only one or more journal lines of a particular journal entry. When the user drills back from the non deleted accounting lines, it will show the original accounting entry from Financials Accounting Hub that includes the deleted lines.

Application Interfaces for Journal Delete Synchronization

The tables in this section describe the application interfaces that are used for journal delete synchronization.

This table lists the PeopleSoft application interfaces that are used for journal delete synchronization:

Application Interface	Process
DeleteAccountingEntryListPeopleSoftReqABCSImpl (outbound) DeleteAccountingEntryListEBM.V1.xsd	Invokes the notification process to Financials Accounting Hub when a journal is deleted from PeopleSoft GL.

This table lists the E-Business Suite application interfaces that are used in this process:

Application Interface	Process
DeleteAccountingEntryListEbizProvABCSImpl APPS_XLA_FSAH_INT_PVT_REV_JOUR_ENTRY_LIST.xsd	XLA_FSAH_INT_PVT.REV_JOUR_ENTRY_LIST Calls Financials Accounting Hub to create a reversal journal entry and de-link the original entry from the Event ID to allow Financials Accounting Hub to reprocess the entry.

Core AIA Components

- AccountingEntryEBO
- DeleteAccountingEntryListEBM
- AccountingEntryEBS

For more information, see Core AIA Components for location details.

Data Requirements

All DVMs are required to be in place in the AIA layer and synchronized for the latest data before beginning this process.

For more information about required DVMs, see Domain Value Maps Used in this Process Integration Page; for DVMs leveraged by ODI, see Exporting the DVMs; and for DVMs, see Validating and Exporting Domain Value Maps.

Integration Services Details

This section describes the following services that are delivered for this process:

- DeleteAccountingEntryPeopleSoftJMSProducer
- DeleteAccountingEntryListPeopleSoftJMSConsumer
- DeleteAccountingEntryListPeopleSoftReqABCSImpl
- AccountingEntryEBS
- DeleteAccountingEntryListEbizProvABCSImpl

DeleteAccountingEntryPeopleSoftJMSProducer

Back to process flow

The DeleteAccountingEntryPeopleSoftJMSProducer service is a BPEL process. This process:

- Is triggered by the manual deletion of a PeopleSoft journal entry. PeopleSoft Integration Broker (IB) publishes the message (including the deleted accounting entry information) into the DeleteAccountingEntryListEBM queue.
- Populates the JMSCorrelationID and stages the message in the PSFT_GL_ACCTENTRY_Q JMS queue.

DeleteAccountingEntryListPeopleSoftJMSConsumer

The DeleteAccountingEntryListPeopleSoftJMSConsumer is a service that takes the PeopleSoft DeleteAccountingEntryListEBM with the AccountingEntryEBO from the PSFT_GL_ACCTENTRY_Q JMS queue and calls the DeleteAccountingEntryListPeopleSoftReqABCSImpl.

DeleteAccountingEntryListPeopleSoftReqABCSImpl

Back to process flow

The DeleteAccountingEntryListPeopleSoftReqABCSImpl is a BPEL service that notifies Financials Accounting Hub when a PeopleSoft journal entry has been deleted so that Financials Accounting Hub generates a reversal of the original entry accordingly.

Journals can be manually deleted for various reasons. Typically, journals are deleted if chart of accounts are out of synch or for other accounting reasons.

The DeleteAccountingEntryListPeopleSoftReqABCSImpl service:

- Adds EBO header-level details.
- Publishes the DeleteAccountingEntryList EBM.
- Invokes the AccountingEntryEBS.

You can use the Integration Scenario Summary page in the Oracle AIA Console to search for and view integration scenarios that utilize a particular ABCS.

For more information, see *Oracle Application Integration Architecture - Core Components Guide,* "Using the BSR," Using the BSR UI to View Integration Scenarios.

AccountingEntry EBS

Back to process flow

The AccountingEntryEBS is an ESB service that is called by the DeleteAccountingEntryListPeopleSoftReqABCS.

The DeleteAccountingEntryEBS service:

- Receives the payload message, DeleteAccountingEntryListEBM.
- Publishes the DeleteAccountingEntryListEBM to Financials Accounting Hub through the DeleteAccountingEntryListEbizProvABCSImpl service.

DeleteAccountingEntryListEbizProvABCSImpl

Back to process flow

Back to interfaces

The DeleteAccountingEntryListEbizProvABCSImpl is a BPEL service that initiates the automatic reversal of a Financials Accounting Hub accounting entry in order to synchronize with a corresponding deleted PeopleSoft journal entry.

The DeleteAccountingEntryListEbizProvABCSImpl service:

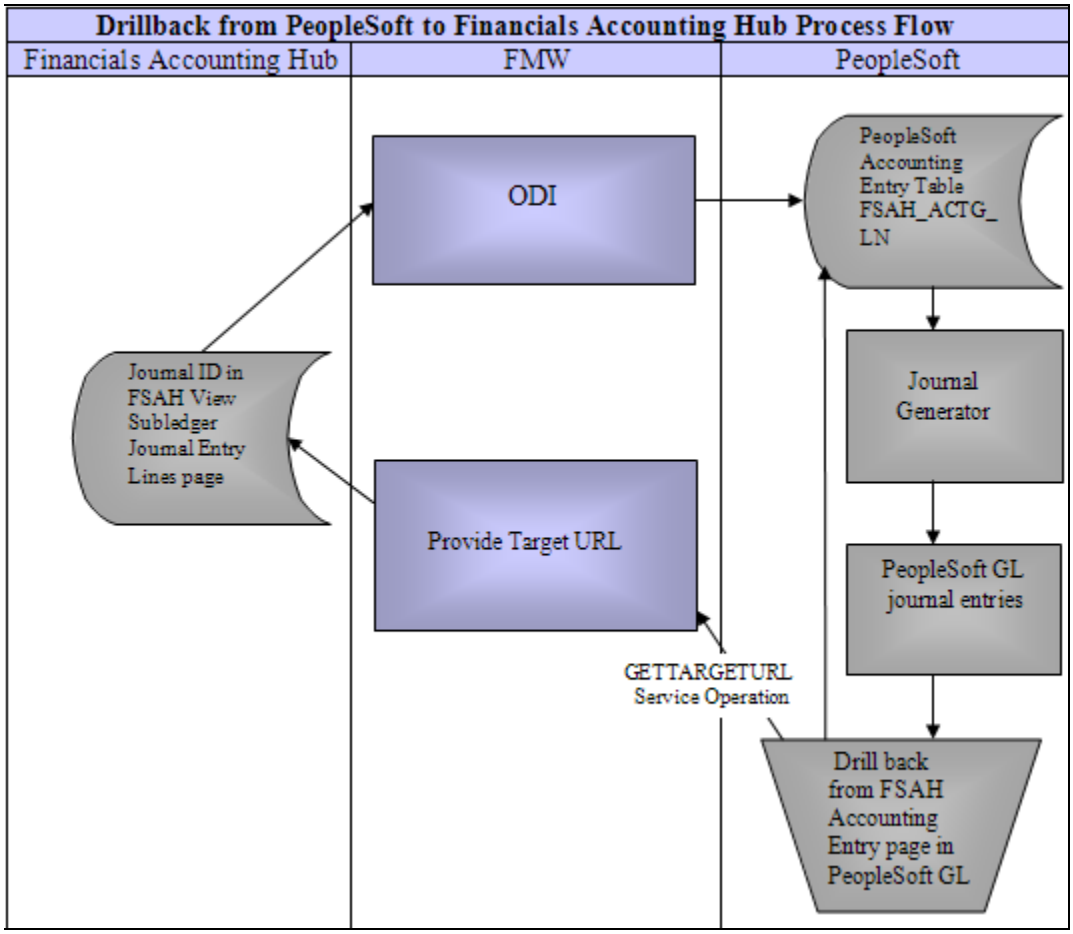
- Is called by the DeleteAccountingEntryEBS.
- Receives the DeleteAccountingEntryListEBM and converts the input to a Financials Accounting Hub-specific DeleteAccountingEntryABO. This object invokes the Reverse Accounting Entry API to reverse the Financials Accounting Hub entry. Financials Accounting Hub creates a reversal entry and de-links the original accounting entry from the Event ID for which the entry is created. Financials Accounting Hub updates the status code of the Event ID to Incomplete so as to make the entry eligible for re-processing.
- Sends the GL DeleteAccountEntryFSAH ABM with the entry to be reversed.

You can use the Integration Scenario Summary page in the Oracle AIA Console to search for and view integration scenarios that utilize a particular ABCS.

For more information, see *Oracle Application Integration Architecture - Core Components Guide,* "Using the BSR," Using the BSR UI to View Integration Scenarios.

Drillback from PeopleSoft GL to Financials Accounting Hub Process Flow

This diagram shows the process flow for drillback from PeopleSoft GL to Financials Accounting Hub entries:



Drillback from PeopleSoft GL to Financials Accounting Hub entries

The Web service operation, GETTARGETURL, is delivered for drilling back to Financials Accounting Hub entries from PeopleSoft GL.

For more information, see Activating Service Operations, Queues and Handlers.

PeopleSoft products require the ability to inquire on transactions that have been integrated within and between systems. This drillback capability provides customers full lifecycle support for the integration. When this process is initiated, the following events occur:

1. After the Journal Generator process creates journal entries in PeopleSoft GL from the Financials Accounting Hub transactions, you can drill back to the source entry from PeopleSoft in the event of errors or questions that require further investigation of the source transaction in Financials Accounting Hub.
2. From the PeopleSoft GL, access the FAH Accounting Entry page, locate the journal in question, and click the links provided to drill back to the Journal ID in Financials Accounting Hub.
3. The Financials Accounting Hub to PeopleSoft GL integration provides a web service operation, GETTARGETURL, that returns a URL to the View Subledger Journal Entry Lines page in Financials Accounting Hub. For security reasons, users are prompted to log on to Financials Accounting Hub first to view the transactions.

For more information, see Drilling Back to Financials Accounting Hub Source Entries from PeopleSoft GL, Enable User Drillback from PeopleSoft, and Enable PeopleSoft Combination Editing.

Chapter 9: Implementing the Process Integration for Financials Accounting Hub to PeopleSoft GL

This chapter discusses these tasks, which must be performed in the AIA integration layer:

- Implement the integration.
- Review Financials Accounting Hub to PeopleSoft GL data considerations.
- Configure the process integration for Financials Accounting Hub to PeopleSoft GL.
- Validate and export domain value maps.
- Validate cross-references and routing rules.
- Handle delivered error notification roles and users.

Implementing the Integration

Accounting lines that are generated in Financials Accounting Hub are posted to the PeopleSoft GL Accounting Entry interface table using the ODI extract, load, and transform (ELT) tool.

The Create Accounting program is scheduled to run at regular intervals, triggering ODI to detect new accounting lines in Financials Accounting Hub. When ODI detects new or changed data and identifies those accounting lines that have not yet been successfully transferred to PeopleSoft, it triggers Financials Accounting Hub to stamp the lines with a Group ID. This Group ID makes them eligible for ODI extraction and accounting entry creation in PeopleSoft.

For more information, see Configuring Oracle Data Integrator.

Schedule the Create Accounting concurrent program to run at regular intervals in batch mode for each ledger. The Create Accounting program selects all unaccounted events for the ledger and creates accounting lines. It raises the existing post accounting business event, oracle.apps.xla.accounting.postaccounting, after accounting entries are saved to the database. You can also run the Create Accounting program in online mode for a single transaction. However, in such a case, the Create Accounting program does not raise the post accounting business event. The business event provides the Ledger ID for which the Create Accounting program was run.

PeopleSoft Integration Broker (IB) is a messaging system that enables the user to synchronize data from one application or system with another. It facilitates synchronous and asynchronous messaging among internal systems and trading partners, while managing message structure, message format, and transport disparities.

The General Ledger interface uses integration points to publish and subscribe data and web services to expose services and service operations for applications that do not share the financials database. An integration point provides integration details for PeopleSoft applications, including which technologies are involved, technology details, information for using PeopleSoft IB for messaging, and how different integration points are related.

The integration point consists of data rules for the applications that it supports. The integration points that are delivered with PeopleSoft provide generic functionality so that they can be adapted for use with as many programs as possible. An integration point can be implemented by using different technologies available in PeopleTools, such as messaging, component interfaces, business interlinks, XML links, and electronic data interchange (EDI). Integration points can be associated with or used by application groups. An application group is a logical grouping of applications that use an integration point in the same business manner.

As volume for accounting entries through AIA integrations is likely to be large, PeopleSoft GL exposes Accounting Entry tables for batch integration. These tables are specific to each integrating application into the GL. The driving principle for this is performance. As numerous systems, internal and external, to the GL can populate accounting entries, system performance improves when each system has its own accounting entry tables.

For more information, see Appendix - Accounting Entry Interface Table.

From the Accounting Entry Interface table, the PeopleSoft Journal Generator creates the appropriate journal entries from the subsystem or third-party accounting entries and sends them to PeopleSoft GL for posting. Users can obtain both detailed and summary accounting information for financial reporting and all other reporting.

Reviewing Financials Accounting Hub to PeopleSoft GL Data Considerations

In addition to the solution assumptions, you must consider these points for successful completion of Financials Accounting Hub accounting entry synchronization to PeopleSoft GL:

- The transaction data that is transformed in this integration is financial data. As such, careful planning and consideration must be given to assigning security to those responsible for invoking modules and those involved in the process.
- The transport process must have a clearly identifiable state so as to exclude the possibility of a false or missing acknowledgement.
- Security should be maintained in both Financials Accounting Hub and PeopleSoft, as well as between them in ODI.
- Web services communication exchanged between the service providers should be secured.
- Login security must be enforced between applications. For example, when drilling back from PeopleSoft to Financials Accounting Hub, the integration provides a URL to the Financials Accounting Hub transactions; however, the user is required to log on to Financials Accounting Hub first to view the transactions.
- All web services that are exposed at any level in this design must be accessible only by the designated web service clients, if so specified. See the solution components for details.
- Legal and regulatory requirements are in place for the traceability or auditability of transactions that affect the financial position of an organization or the relationship between organizations. The Sarbanes-Oxley Act enacted into law by the U.S. Congress in 2002 is one example of such requirements. This PIP does not achieve or store detailed transaction data generated by a participating application, other than during the time it is published by an

application and successfully received by another application. However, this PIP does create and store cross-references of identifications between objects or documents in the participating applications to facilitate drillback searching.

Configuring the Process Integration for Financials Accounting Hub to PeopleSoft GL

Configure properties in the AIAConfigurationProperties.xml file, which is located at *<AIA_INSTALLATION_HOME>/config/AIAConfigurationProperties.xml*.

Note: The ODI process uses the AIAAysncErrorHandler to send notifications; therefore, configuration of email notification properties is not necessary.

The properties are grouped under:

- System Properties: The system level properties.
- Module Level Properties: Properties that can be grouped by end point application, such as User and Responsibility for EBiz.
- Service Level Properties: Properties by integration flow.

Note: Whenever the AIAConfigurationProperties.xml file is updated, the file must be reloaded for updates to be reflected in the applications or services that use the updated properties. You can perform this reload by clicking the Reload button on the Configuration page in the Oracle AIA Console. Alternatively, you can perform the reload by rebooting the server.

For more information, see *Oracle Application Integration Architecture - Core Components Guide,* "Using the BSR," Loading Oracle AIA Configuration File Updates.

The tables in this section describe the ABCS services that are used in the process integration.

SyncCurrencyExchangeListPeopleSoftReqABCSImpl Service

This table lists the property names and values for the SyncCurrencyExchangeListPeopleSoftReqABCSImpl service:

Property Name	Value/Default Values	Description
Sender.SystemID	PSFT_01	Identifier for the PeopleSoft installation
Routing.RouteToCAVS	True/False. Default = False.	Enables CAVS for testing.
ABCSExtension. PreProcessABM	True/False. Default = False.	Controls whether to route messages to the extensibility system.
ABCSExtension. PreProcessEBM	True/False. Default = False.	Controls whether to route messages to the extensibility system.

Property Name	Value/Default Values	Description
ABCSExtension. PostProcessEBM	True/False. Default = False.	Controls whether to route messages to the extensibility system.
ABCSExtension. PostProcessABM	True/False. Default = False.	Controls whether to route messages to the extensibility system.

SyncAccountGLElementValueSetListPeopleSoftReqABCSImpl Service

This table lists the property names and values for the SyncAccountGLElementValueSetListPeopleSoftReqABCSImpl service

Property Name	Value/Default Values	Description
Sender.SystemID	PSFT_01	Identifier for the PeopleSoft installation
Routing.RouteToCAVS	True/False. Default = False.	Enables the use of CAVS for testing
ABCSExtension. PreProcessABM	True/False. Default = False.	Controls whether to route messages to the extensibility system.
ABCSExtension. PreProcessEBM	True/False. Default = False.	Controls whether to route messages to the extensibility system.
ABCSExtension. PostProcessEBM	True/False. Default = False.	Controls whether to route messages to the extensibility system.
ABCSExtension. PostProcessABM	True/False. Default = False.	Controls whether to route messages to the extensibility system.

SyncGLElementValueSetListPeopleSoftReqABCSImpl Service

This table lists the property names and values for the SyncGLElementValueSetListPeopleSoftReqABCSImpl service

Property Name	Value/Default Values	Description
Sender.SystemID	PSFT_01	Identifier for the PeopleSoft installation
Routing.RouteToCAVS	True/False. Default = False.	Enables the use of CAVS for testing
ABCSExtension. PreProcessABM	True/False. Default = False.	Controls whether to route messages to the extensibility system.
ABCSExtension. PreProcessEBM	True/False. Default = False.	Controls whether to route messages to the extensibility system.
ABCSExtension.	True/False. Default = False.	Controls whether to route messages to

Property Name	Value/Default Values	Description
PostProcessEBM		the extensibility system.
ABCSExtension. PostProcessABM	True/False. Default = False.	Controls whether to route messages to the extensibility system.

ProcessAccountingPeriodPeopleSoftReqABCSImpl Service

This table lists the property names and values for the ProcessAccountingPeriodPeopleSoftReqABCSImpl service

Property Name	Value/Default Values	Description
Sender.SystemID	PSFT_01	Identifier for the PeopleSoft installation
Routing.RouteToCAVS	True/False. Default = False.	Enables the use of CAVS for testing
ABCSExtension. PreProcessABM	True/False. Default = False.	Controls whether to route messages to the extensibility system.
ABCSExtension. PreProcessEBM	True/False. Default = False.	Controls whether to route messages to the extensibility system.
ABCSExtension. PostProcessEBM	True/False. Default = False.	Controls whether to route messages to the extensibility system.
ABCSExtension. PostProcessABM	True/False. Default = False.	Controls whether to route messages to the extensibility system.

DeleteAccountingEntryListPeopleSoftReqABCSImpl Service

This table lists the property names and values for the DeleteAccountingEntryListPeopleSoftReqABCSImpl service:

Property Name	Value/Default Values	Description
Sender.SystemID	PSFT_01	Identifier for the PeopleSoft installation
Routing.RouteToCAVS	True/False. Default = False.	Enables the use of CAVS for testing
ABCSExtension. PreProcessABM	True/False. Default = False.	Controls whether to route messages to the extensibility system.
ABCSExtension. PreProcessEBM	True/False. Default = False.	Controls whether to route messages to the extensibility system.
ABCSExtension. PostProcessEBM	True/False. Default = False.	Controls whether to route messages to the extensibility system.
ABCSExtension.	True/False. Default = False.	Controls whether to route messages to

Property Name	Value/Default Values	Description
PostProcessABM		the extensibility system.

SyncCurrencyExchangeListEbizProvABCSImpl Service

This table lists the property names and values for the SyncCurrencyExchangeListEbizProvABCSImpl service:

Property Name	Value/Default Values	Description
Default.SystemID	EBIZ_01	EBiz system instance code from the currency exchange provider.
Routing.SyncCurrencyExchangeService.RouteToCAVS	True/False. Default = False.	Controls message routing to the verification system.
Routing.SyncCurrencyExchangeService. EBIZ_01.EndpointURI	No default value	Oracle currency exchange endpoint wsdl location. This is a URL that normally resides on the SOA server.
Routing.SyncCurrencyExchangeService.CAVS. EndpointURI	Value Checked In	CAVS endpoint location to simulate a sync response for Oracle currency exchange endpoint wsdl location.
Routing.PurgeCurrencyExchangeListService.RouteTo CAVS	True/False. Default = False.	Controls message routing to the verification system.
Routing.PurgeCurrencyExchangeListService.EBIZ_01.EndpointURI	No default value	Oracle Purge Currency Exchange endpoint wsdl location. This is a URL that normally resides on the SOA server.
Routing.PurgeCurrencyExchangeListService.CAVS. EndpointURI	Value Checked In	CAVS endpoint location to simulate a sync response for Oracle purge currency exchange service.
RESPONSIBILITY	Responsibility for GL	Responsibility for GL Access.
TRACE.LOG.ENABLED	False	Use to control logging by the currency exchange flow.
FILTER_IDENTICAL_FROM_AND_TO_CURRENCY	True	This property if set to true filters identical from and to currency as it is not supported in EBS.
AUTO_ADJUST_TO_DATE	True	When set to “True,” this DVM adjusts date ranges to match E-Business Suite currency exchange rate effective dates with the participating edge application.
DEFAULT_CURR_EXCHG_DURATION	1	Default duration used to derive the TO_DATE if no value is supplied in the EBIZ_CURR_CONVTYPE CODE _DURATION DVM.

Property Name	Value/Default Values	Description
ABCSExtension. PreProcessABM	True/False. Default = False.	Controls message routing to the extensibility system.
ABCSExtension. PreProcessEBM	True/False. Default = False.	Controls message routing to the extensibility system.
ABCSExtension. PostProcessEBM	True/False. Default = False.	Controls message routing to the extensibility system.
ABCSExtension. PostProcessABM	True/False. Default = False.	Controls message routing to the extensibility system.

ProcessAccountingPeriodOpenWindowListEbizProvABCSImpl Service

This table lists the property names and values for the ProcessAccountingPeriodOpenWindowListEbizProvABCSImpl service.

Property Name	Value/Default Values	Description
Routing.ProcessAccountingPeriodOpenWindowService.RouteToCAVS	False	Enables the use of CAVS for testing
Default.SystemID	EBIZ_01	Identifier for the EBiz installation
Routing.ProcessAccounting PeriodOpenWindowService. EBIZ_01.EndpointURI	(Empty)	The URI of the service that is the interface to the EBS API used to open the accounting period.
Routing.ProcessAccounting PeriodOpenWindowService. CAVS.EndpointURI	http://${http.hostname}: ${http.port}/AIAValidationSystem Servlet/ syncresponsesimulator	CAVS endpoint location to simulate a sync response for Oracle Process Accounting Period OpenWindow Service.
CUSTOM.TRANSFORMATIONS. EBM_TO_ABM	False	Used to control logging by the BPEL service.
TRACE.LOG.ENABLED	False	Used to set apps context before calling the EBS API.
USER	User and responsibility for General Ledger	Used to set apps context before calling the EBS API.
RESPONSIBILITY	User and responsibility for General Ledger	The URI of the service that is the interface to the EBS API used to open the accounting period.
ABCSExtension PreProcessABM	True/False. Default = False.	Controls whether to route messages to the extensibility system.
ABCSExtension PreProcessEBM	True/False. Default = False.	Controls whether to route messages to the extensibility system.
ABCSExtension	True/False. Default = False.	Controls whether to route messages to the extensibility system.

Property Name	Value/Default Values	Description
PostProcessEBM		
ABCSExtension.PostProcessABM	True/False. Default = False.	Controls whether to route messages to the extensibility system.

DeleteAccountingEntryListEbizProvABCSImpl Service

This table lists the property names and values for the DeleteAccountingEntryListEbizProvABCSImpl Service:

Property Name	Value/Default Values	Description
Routing.DeleteAccountingEntryList Service.RouteToCAVS	False	Enables the use of CAVS for testing
Default.SystemID	EBIZ_01	Identifier for the EBiz installation
Routing.DeleteAccountingEntryList Service.EBIZ_01.EndpointURI	Empty	The URI of the service that is the interface to the EBS API used to delete the accounting entry.
Routing.DeleteAccountingEntryList Service.CAVS.EndpointURI	Value Checked In	CAVS endpoint location to simulate a sync response for Oracle Delete Accounting Entry Service.
TRACE.LOG.ENABLED	False	Controls logging by the BPEL service
USER	User and responsibility for XLA access	Sets apps context before calling the EBS API.
RESPONSIBILITY	User and responsibility for XLA access	Sets apps context before calling the EBS API.
ABCSExtension. PreProcessABM	True/False. Default = False.	Controls whether to route messages to the extensibility system.
ABCSExtension. PreProcessEBM	True/False. Default = False.	Controls whether to route messages to the extensibility system.
ABCSExtension. PostProcessEBM	True/False. Default = False.	Controls whether to route messages to the extensibility system.
ABCSExtension. PostProcessABM	True/False. Default = False.	Controls whether to route messages to the extensibility system.

ProcessGLAccountValidationEbizReqABCSImpl Service

This table lists the property names and values for the ProcessGLAccountValidationEbizReqABCSImpl Service:

Property Name	Value/Default Values	Description
Routing.DeleteAccountingEntryList Service.RouteToCAVS	False	Enables the use of CAVS for testing
Routing.RouteToCAVS	False	Enables the use of CAVS for testing
VALIDATE.COMBINATION.AND. VALUE	False	Determines whether the PeopleSoft validation will validate both the combination of ChartField segments as being valid AND the actual value of each segment. If false then only the combination is validated, if true, then both the combination and individual value are validated.
Default.Values.Transform ***Warning!*** Do not modify this property for this PIP.	1. NULL 2. SEND_DEFAULT 3. NO_VALUE	1. A null value (must be a single space) will be sent to PeopleSoft for the default value of the segment. 2. Sends the default value that is defined in E-Business Suite. 3. Filters the value.
ABCSExtension. PreProcessABM	True/False. Default = False.	Controls whether to route messages to the extensibility system.
ABCSExtension. PreProcessEBM	True/False. Default = False.	Controls whether to route messages to the extensibility system.
ABCSExtension. PostProcessEBM	True/False. Default = False.	Controls whether to route messages to the extensibility system.
ABCSExtension. PostProcessABM	True/False. Default = False.	Controls whether to route messages to the extensibility system.

ProcessGLAccountValidationPeopleSoftProvABCSImpl Service

This table lists the property names and values for the ProcessGLAccountValidationPeopleSoftProvABCSImpl Service:

Property Name	Value/Default Values	Description
Sender.SystemID	PSFT_01	Identifier for the PeopleSoft installation
Routing.GL_CHARTFIELD.1. PSFT_01.EndpointURI	http://<<PeopleSoft Application server name>>:<<port number>>/PSIGW/ PeopleSoftService ListeningConnector/ <<PeopleSoft SiteID>>	The location of the PeopleSoftListener for the web service endpoint location. This is a SOAP endpoint URL.
Routing.GL_CHARTFIELD.1.	http://<<FMW	FMW CAVS EndpointURI

Property Name	Value/Default Values	Description
CAVS.EndpointURI	*Hostname*>>:<<HTTP port number>>/AIAValidationSystem Servlet/syncresponsesimulator?simid=1270	
Routing.GL_CHARTFIELD.1. RouteToCAVS	False	Enables the use of CAVS for testing
ABCSExtension. PreProcessABM	True/False. Default = False.	Controls whether to route messages to the extensibility system.
ABCSExtension. PreProcessEBM	True/False. Default = False.	Controls whether to route messages to the extensibility system.
ABCSExtension. PostProcessEBM	True/False. Default = False.	Controls whether to route messages to the extensibility system.
ABCSExtension. PostProcessABM	True/False. Default = False.	Controls whether to route messages to the extensibility system.

SyncGLELementValueSetEbizProvABCSImpl Service

This table lists the property names and values for the SyncGLELementValueSetEbizProvABCSImpl Service:

Property Name	Value/Default Values	Description
Routing.SyncChartOfAccount SegmentValuesService.RouteToCAVS	False	Identifier for the PeopleSoft installation
Default.SystemID	EBIZ_01	Identifier for the EBiz installation
Routing.SyncChartOfAccount SegmentValuesService.EBIZ_01. EndpointURI	(Empty)	The URI of the service that is the interface to the EBS API used to sync the coa segment values.
Routing.SyncChartOfAccount SegmentValuesService.CAVS EndpointURI	Value checked in	CAVS endpoint location to simulate a sync response for Oracle Sync COA Segment Values Service.
TRACE.LOG.ENABLED	False	Controls logging by the BPEL service
ABCSExtension PreProcessABM	True/False. Default = False.	Controls whether to route messages to the extensibility system.
ABCSExtension PreProcessEBM	True/False. Default = False.	Controls whether to route messages to the extensibility system.
ABCSExtension PostProcessEBM	True/False. Default = False.	Controls whether to route messages to the extensibility system.

Property Name	Value/Default Values	Description
ABCSExtension PostProcessABM	True/False. Default = False.	Controls whether to route messages to the extensibility system.

URLGenerator Service

This table lists the property names and values for the URLGenerator Service:

Property Name	Value/Default Values	Description
HostandPort	http://<SOA_HOST>:SOA_PORT (SOA Host Name: Http Port No. of the SOA Server)	The installer will populate the values automatically. Verify that the URL is correct and, if https is used instead of http, then correct the protocol part of the address given here.

SyncAccountGLElementValueSetListEbizProvABCSImpl Service

This table lists the property names and values for the SyncAccountGLElementValueSetListEbizProvABCSImpl Service:

Property Name	Value/Default Values	Description
Routing.SyncChartOfAccount SegmentValuesService.RouteToCAVS	False	Identifier for the PeopleSoft installation
Default.SystemID	EBIZ_01	Identifier for the EBiz installation
Routing.SyncChartOfAccount SegmentValuesService.EBIZ_01 EndpointURI	(Empty)	The URI of the service that is the interface to the EBS API used to sync the coa segment values.
Routing.SyncChartOfAccount SegmentValuesService.CAVS EndpointURI	Value Checked In.	CAVS endpoint location to simulate a sync response for Oracle Sync COA Segment Values Service.
TRACE.LOG.ENABLED	False	Controls logging by the BPEL service.
RESPONSIBILITY	User and Responsibility With GL Access.	Sets Apps Context before calling the EBS API.
ABCSExtension. PreProcessABM	True/False. Default = False.	Controls whether to route messages to the extensibility system.
ABCSExtension. PreProcessEBM	True/False. Default = False.	Controls whether to route messages to the extensibility system.
ABCSExtension. PostProcessEBM	True/False. Default = False.	Controls whether to route messages to the extensibility system.
ABCSExtension.	True/False. Default = False.	Controls whether to route messages to

Property Name	Value/Default Values	Description
PostProcessABM		the extensibility system.

Validating and Exporting Domain Value Maps

A Domain Value Map (DVM) is a standard feature of SOA. DVMs are XML files that contain the mapping between related information in the participating applications. The AIA DVMs are maintained in AIA the layer and are used to transform the messages from one participating application to the expected format of the other application.

The exported DVMs from the Enterprise Service Bus (ESB) console should be stored in the following location: <AIA_HOME>/PIPS/Core/SeedData/DVM.

For ongoing processing, after validating that the data in the AIA DVMs is synchronized, export the DVMs from the SOA suite to be used as input in mapping the data between PeopleSoft and Financials Accounting Hub.

Remember that you should maintain any AIA DVM with a corresponding PeopleSoft DVM in both PeopleSoft and in AIA. The AIA DVMs with a corresponding PeopleSoft DVM map the data in the EBIZ_01 column to the COMMON column, and the PeopleSoft DVMs map the COMMON column to the PSFT_01 column. The PeopleSoft values within the corresponding AIA DVM are provided as reference only.

For more information, including a complete list of DVMs, see Domain Value Maps Used in this Process Integration Pack.

Prerequisites

Before processing any initial or incremental loads of reference or transactional data:

- Verify that all of the required DVMs for the integration exist.
- Verify that DVM data is synchronized with the latest data from participating applications.

For more information, see Setting Up the Participating Applications.

Access the AIA DVMs from Oracle Enterprise Manager - ESB Control. Click the  Maps icon:

DVMs are static in nature, though administrators can add maps or rows as needed. Transactional business processes never update DVMs—they only read from them. DVMs are stored in XML files and cached in memory at runtime. The DVM data should be in sync with what the participating applications use. You should perform this sync-up before running any initial loads or initiating any incremental transactional flows.

Note: DVM names, column names, or number of columns should not be altered after implementation.

Validating Cross-References and Routing Rules

Since the integration is not point-to-point between the systems, AIA maintains tables to store the mapping between the common data and entity identifications between the participating applications. AIA maintains the identification mapping information in these cross-reference tables while passing the information from one system to another. The information from these tables is accessed during message transformation and processing of integration flows.

AIA includes this XREF table for maintaining the cross-references for Currency Exchange Rates:

XREF_TABLE_NAME	XREF_COLUMN_NAME	Description	Usage
CURRENCYEXCHANGE_ID	PSFT_01	PeopleSoft GUID	PeopleSoft Global Unique ID that uniquely defines an instance of the currency exchange rate.
CURRENCYEXCHANGE_ID	COMMON	AIA GUID	Lookup during the currency exchange integration
CURRENCYEXCHANGE_ID	EBIZ_01	Concatenation of FSAH FromCurrencyCode To CurrencyCode, ConversionType, and Conversion Date	E-Business Suite does not populate or use this cross-reference. PeopleSoft maintains this column for use in future integrations.

Adding Routing Rules

This section describes how to review and add routing rules.

To review the routing rules that are delivered for the Enterprise Business Services (EBS), perform these steps:

1. Log on to the ESB Console: http://<hostname:port>/esb/.
2. Select the service to review from the list of services that appear on the left side.
3. Select the Routing Rules tab to review the routing rules or to add a new routing rule to the service.
4. To add a new rule, use the Add icon (+) that is located next to the operation name.
5. When the list of services from which to choose appears, select BPELSystem. Navigate to the BPEL service to which the new rule should be added and click Select.
6. The new routing rule appears for the selected service.

To add another routing rule for a shared service, such as Currency Exchange, complete these steps:

1. Select CurrencyExchangeEBS from the list of EBS services (located under AIASystem within the EBS service group for that system.)
2. Add another routing rule to operation, SyncCurrencyExchangeList: (CurrencyExchangeEBS::SyncCurrencyExchangeList)
3. From the list of services, select the SyncCurrencyExchangeListEbizProvABCSImpl process and the "initiate" operation within it.
4. Once the Target Operation is selected, an "initiate" and a "receive" operation should be available for the currency exchange process.

Handling Delivered Error Notification Roles and Users

This integration does not deliver any default roles and users; implementers must create them. These actor roles and users are suggestions:

- Role: OraclePSFTAdmin. User: OraclePSFTAdminUser.
- Role: OracleEBizAdmin. User: OracleEBizAdminUser.
- Role: AIAIntegrationAdmin. User: AIAIntegrationAdminUser.

FYI Roles and Users:

- Role: OraclePSFTCSR. User: OraclePSFTCSRUser.
- Role: OracleEBizCSR.User: OracleEBizCSRUser.

The default password set for all users is welcome1.

PeopleSoft has developed a toolset to provide for a DVM and cross-reference locally. Issues that are found in the AIA layer for DVM and cross-reference could originate in the PeopleSoft layer.

Support Services will transfer trouble tickets to the participating applications ticketing systems in the following cases:

- If the issue is a pure application issue (that is, a Financials Accounting Hub or PeopleSoft issue). The error message text itself should provide a hint as to whether the error is a pure application issue.
- If the issue is with the Application Business Connector Service (ABCS)

For more information about setting up error notifications using these values, see *Oracle Application Integration Architecture - Core Components Guide,* "Setting Up and Using Error Handling and Logging," Setting Up Error Notifications and Trace Logging.

Chapter 10: Setting Up Participating Applications

This chapter discusses how to:

- Configure Oracle Data Integrator.
- Call ODI scenarios.
- Set up E-Business Suite and Financials Accounting Hub.
- Set up PeopleSoft for the Financials Accounting Hub to PeopleSoft GL Integration

The Oracle Data Integrator (ODI) extract, load, and transform (ELT) tool must be installed to extract, load, and transfer the accounting lines from Financials Accounting Hub to PeopleSoft. ODI is then configured for:

- Identifying those accounting lines that have not yet been successfully transferred to PeopleSoft.
- Triggering Financials Accounting Hub to stamp the lines with a Group ID, making them eligible for ODI extraction and accounting entry creation in PeopleSoft.

E-Business Suite and Financials Accounting Hub must be installed for this Process Integration Pack (PIP).

For more information, see the *AIA Install and Upgrade Guide,* Financials Accounting Hub to PeopleSoft GL PIP.

After the installation is complete, setup includes:

- Creating GL shells in Oracle that replicate the basic structure of the PeopleSoft GL. These shells hold the setup information once PeopleSoft publishes the data. Standard Oracle GL functionality is used to complete this process.
- Manually populating AIA DMVs and synchronizing before running initial loads.
- Manually loading currency codes, currency rate types, and calendars.

As PeopleSoft GL is the book of record for this integration and presumably operational, the required setup for PeopleSoft consists of the following steps:

- Activating the web services and submitting requests for initial and incremental data loads.
- Validating and populating DVMs that are stored within PeopleSoft.
- Checking setup and publishing data for initial load and synchronization between applications.
- Setting up the Journal Generator to transform Financials Accounting Hub entries into PeopleSoft GL journal entries.

For more information, including a complete list of DVMs, see Domain Value Maps Used in this Process Integration Pack.

Configuring Oracle Data Integrator

This section describes the requirements for configuring ODI and discusses how to:

- Perform post-installation steps.
- Deploy the web services.
- Export the DVMs
- Call the ODI scenarios

Requirements for Configuring ODI

These are the requirements for configuring ODI:

- ODI 10.1.3.5.3, on Windows or Linux only, is used to transport the accounting lines from Financials Accounting Hub to the PeopleSoft staging table. This specification is for SOA Suite 10.1.3.4.
- Upgrade ODI to 10.1.3.5.3 by installing Metalink patch #8786991. The patch may be applied on ODI versions 10.1.3.5.0 and above. To check your version of ODI, open Designer and select Help, About Oracle Data Integrator menu. The version appears in the About window.
- For pre-installation and installation steps, which include setting up the master and work repositories, configuring the properties, and installing the patches, see the *Oracle Installation and Upgrade Guide.*
- The master repository should not have an internal ID of 777 because it is internal to the PIP.
- The work repository created for the PIP should not have an internal ID of 900 for a similar reason.

Performing Post-Installation Steps

This section describes the post-installation steps to complete to call the ODI scenario from the Business event and view metadata.

To call the ODI scenario from the Business event, complete the following configuration:

1. ODI Service should be on axis2. Refer to Deploying the Web Services section.
2. The ODI server needs to be started as an agent scheduler. Use the following command to start the agent scheduler and the agent:
   a. Telnet to the ODI server.
   b. Go to ODI_HOME/bin and run the following command:

```
For Linux: agentscheduler.sh "-NAME=Oracle FSAH to PSFT GL Agent" "-
port=20910"
For Windows: agentscheduler.bat "-NAME=Oracle FSAH to PSFT GL Agent"
"-port=20910"
```

To see project artifacts in Metadata Navigator, you must complete these steps:

1. The Metadata Navigator is initially associated with the default work repository. It must be associated with the work repository that is created for this PIP by changing the following two files:

   a. <ODI_HOME>/bin/snps_login_work.xml

   b. <SOA_HOME>/j2ee/oc4j_soa/applications/<Metadata Navigator Home (i.e., ODIMeta or Metadata Navigator)>/oracledimn/WEB-INF/snps_login_work.xml

2. In both files, change the value for the following field in the SnpLogin block having "**Repository**" as:

   LoginName:
   <Field name="LoginWorkRepository"
   type="java.lang.String"><![CDATA[TESTWORKREPO1]]></Field> to the name of the work repository created for the PIP.

   For example, if FAHPSFT is the name of the work repository that is created for the PIP, then the field should resemble the following after changing:
   <Field name="LoginWorkRepository" type="java.lang.String"><![CDATA[FAHPSFT]]></Field>

3. Restart the application server. After completing these steps, the Metadata Navigator is associated with the work repository of the PIP and all artifacts can be seen from the navigator through the Repository-SUPERVISOR-SUNOPSIS login.

Deploying the Web Services

This section describes how to download the axis2 file and deploy the web services.

To download the axis2 file from http://ws.apache.org/axis2/ (download axsis 1.2 version), perform these steps either as a prerequisite or a post-installation download:

1. Deploy axis2.war on to the Application server.
2. Open Axis home page: http://SOA_SERVER_HOST:PORT/axis2/axis2-web/index.jsp.
3. Go to Administrator module as admin/axis2.
4. Go to the Upload Services page.
5. Deploy the odi-public-ws.aar file that comes with ODI installation.

Exporting the DVMs

This section discusses how to export the DVMs for the ODI to use in the integration process.

Note: The header information such as "ChartOfAcountsId-Segment" in DVMs such as CHARTOFACCOUNTS_GLELEMENT should be removed. They should be replaced with relevant values.

This table lists the DVMs that ODI uses in the transformation of entries:

AIA DVMs Used by ODI (xml files)	Description of Mapping
BUSINESS_UNIT	E-Business Suite Ledger short name to PeopleSoft GL Ledger for a Business Unit.
CURRENCY_CODE	E-Business Suite currency code to PeopleSoft currency code.
CURRENCYEXCHANGE_CONVER SIONTYPECODE	E-Business Suite currency conversion type to PeopleSoft rate type.
JGEN_TEMPLATE	E-Business Suite application short name to PeopleSoft Journal Generator Template ID.
CHARTOFACCOUNTS_GLELEMENT	E-Business Suite COA ID and Segment to PeopleSoft ChartField.
EBIZ_SEGMENT_DEFAULT_VALUES	E-Business Suite default segment values to null values (represented by a single space) for PeopleSoft ChartFields.

When the DVMs are modified in the FMW server, perform these steps:

1. Export the .xml files with the names as listed in the table to the local machine.
2. Rename the files by replacing the underscore in the file names with 95. For example, BUSINESS_UNIT becomes BUSINESS95UNIT.
3. Once the .xml files are renamed, copy them to the server in the following location: <AIA_HOME>/PIPS/CORE/SEEDDATA/DVM.
4. After the files have been renamed and copied to the required location, be sure to make them read-only before running the scenario.
5. Execute the scenarios for the corresponding DVMs:
   - LOADBUSINESSUNITGLDVM
   - LOADCURRENCYCODEDVM
   - LOADCURRENCYRATEDVM
   - LOADJGTEMPLATEDVM
6. When the scenarios have been executed, bounce the agent in order for the .xml schema to be updated.
7. When the CHARTOFACCOUNT_GLELEMENT and EBIZ_SEGMENT_DEFAULT_VALUES DVMs are changed, export the .xml files with the same name to the local machine and then copy them to the server in the following location: <AIA_HOME>/PIPS/CORE/EBIZ/SERVICES/DYNAMICVIEWGENERATOR.

Note: After copying to the DynamicViewGenerator location, verify that the XML file name contains an underscore rather than '95'.

8. Run the Dynamic View Generation code and recompile the view on the database as follows: (These steps are the same for all platforms.)

   a. Run aiaenv.sh (or aiaenv.bat) at <AIA_HOME>/bin.

   b. Go to <AIA_HOME>/PIPS/Core/Ebiz/Services/DynamicViewGenerator.

   c. Run the following command (be sure to remove line breaks):

```
java oracle.apps.ebi.util.CreateViewText
CHARTOFACCOUNTS_GLELEMENT_VIEW.ini CHARTOFACCOUNTS_GLELEMENT.xml
EBIZ01 PSFT01 XLA_JE_EXTRACT_V.sql
EBIZ_SEGMENT_DEFAULT_VALUES.xml

(The command uses six variables; they are):

1=ini file
2=dvm
3=ebiz column name in dvm
4=psft column name
5=name of sql file to be generated
6=name of the default value dvm xml file
```

   d. Copy the code and compile on the database.

Calling ODI Scenarios

The Create Accounting concurrent program, which is configurable to run at regular intervals, invokes the following ODI scenario:

1. Calls a procedure to check if data in available to transfer. If not, it exits the procedure.
2. If ODI finds data to transfer, it calls a procedure that stamps the Group_ID (batch ID) on all the lines that are currently marked for transfer. ODI extracts only those accounting lines that are Final Accounted and Not Transferred. These accounting lines have a value of "F" in the ACCOUNTING_ENTRY_STATUS_CODE field and a value of "N" in the GL_TRANSFER_STATUS_CODE within the XLA_AE_HEADERS record.
3. After the lines are marked, ODI calls the interface to populate the target PeopleSoft staging table (PS_FSAH_ACTG_LN) with the data from the E-Business Suite view, XLA_JE_EXTRACT_V.
4. After the data is transferred, ODI calls a procedure that updates the transfer status on the E-Business Suite view, XLA_JE_EXTRACT_V, to specify that the transfer is complete. It changes the ACCOUNTING_ENTRY_STATUS_CODE field to "Y."
5. The Ledger Group field within the PS_FSAH_ACTG_LN record is populated by deriving the value from PeopleSoft based upon the LEDGER and BUSINESS_UNIT_GL fields.
6. If any PeopleSoft journals are deleted, the system resets the GL distribution status flag of the corresponding accounting entry lines to 'X' (Waiting for Reversal). In this way, the accounting lines are not processed by Journal Generator until a reversal is sent to PeopleSoft, at which time, ODI resets the GL distribution status from 'X' to 'N.'

7. If any entry in the transfer fails, the ODI process does not commit any of the data on the target PeopleSoft table; and, the Group ID on the E-Business Suite source table is updated to NULL so that the batch can be picked up in the next run.
8. E-Business Suite provides an additional scenario in the event a manual run is necessary to populate the following parameters: Ledger Short Name, Application Short Name, Product Category and End Date. This is a mechanism that can be accessed in case there are errors that need to be pushed through manually in short order.

For more information about scheduling the Create Accounting program, see Initiate Transactions from Source Systems: Create Accounting Program.

On Success

If the data transfer process completes successfully, the user is not notified. The user is notified only in the event of failure. Be sure and check status of the process to ensure success.

On Failure

On failure, the ODI scenario calls the AIAAsyncErrorHandler process, which in turn sends a notification to the configured users. No SMTP_TO_USER variable exists.

This section describes two types of error scenarios:

Error Scenario 1

If some of the rows in the Financials Accounting Hub database do not satisfy any constraints, this error message is sent to the user:

“The data that has to be transferred does not satisfy the required criteria. Please check the error console of PS_FSAH_ACTG_LN model in PeopleSoft GL Interface for more information.”

In this case, follow these steps to check the rows that failed:

1. Open ODI Designer and go to the Models tab.
2. Expand PeopleSoft GL Interface and right click on PS_FSAH_ACTG_LN.
3. Click on Control - Errors.
4. All the failed rows are displayed.

These rows must be fixed so that the next scheduled run can pick them up and transfer them.

Error Scenario 2

If an unexpected error occurs, the error stack is attached with the notification mail. For example, this stack trace is displayed in the notification mail:

“942 : 42000 : java.sql.SQLException: ORA-00942: table or view does not exist

java.sql.SQLException: ORA-00942: table or view does not exist

at oracle.jdbc.driver.DatabaseError.throwSqlException(DatabaseError.java:125)
at oracle.jdbc.driver.T4CTTIoer.processError(T4CTTIoer.java:316)
at oracle.jdbc.driver.T4CTTIoer.processError(T4CTTIoer.java:282)”

This error can be due to:

- Wrong server and schema information: To fix this error, go to topology manager of ODI, expand the connection under Oracle Technology in the Physical Topology. Fix the database and schema information.
- Tables and views not being set up on the given environments: The administrator should check whether the required Financials Accounting Hub and PeopleSoft patches are applied on the source and target environments.

Setting Up E-Business Suite and Financials Accounting Hub

To provide the integration between source systems and PeopleSoft GL, Financials Accounting Hub leverages the setup in E-Business Suite and uses SLA features to serve the purpose of centralized accounting. E-Business Suite should be configured in synchronization with PeopleSoft according to the DVM mapping considerations.

This section provides an overview of E-Business Suite and Financials Accounting Hub delivered objects and discusses the setup task for E-Business Suite and Financials Accounting Hub that are needed for this integration. The setup tasks include:

- Perform post-installation steps.
- Set up account types.
- Synchronize and update value sets with PeopleSoft chartfields.
- Synchronize and validate the accounting flexfield structure.
- Set up flexfield qualifiers.
- Enable dynamic inserts.
- Freeze and compile accounting structure.
- Set up currency codes, currency conversion rate types and currency exchange rates.
- Synchronize E-Business Suite currency rates with PeopleSoft
- Set up ledgers.
- Enable user drillback from PeopleSoft.
- Open accounting periods for the ledgers.
- Synchronize and update E-Business Suite open periods with PeopleSoft GL open periods.
- Initiate transactions from source systems.

For documentation of E-Business Suite and Financials Accounting Hub implementation detail, consult these resources:

- Oracle General Ledger Implementation Guide.
- Oracle Financial Services Accounting Hub Implementation Guide.
- Oracle Applications FlexFields Guide.

Overview of E-Business Suite and Financials Accounting Hub Delivered Objects for the Process Integration Pack

After installation, E-Business Suite - Financials Accounting Hub includes these objects, which are unique to the Financials Accounting Hub to PeopleSoft GL integration:

- A new view, XLA_JE_EXTRACT_V, which is populated by the Create Accounting process. The accounting lines within Financials Accounting Hub are stored here, and all the relevant transformation necessary for mapping E-Business Suite-Financials Accounting Hub accounting lines to PeopleSoft accounting entries extends from here.
- Application interfaces as described in the Financials Accounting Hub Application Interfaces section.
- A new LOOKUP_TYPE, XLA_PSFT_APPL_JRNL_ID, which is defined in XLA_LOOKUPS (APPLSYS.FND_LOOKUP_VALUES).

ODI uses the view, XLA_JE_EXTRACT_V, to construct the source side of the mapping. The target side of the mapping is the PeopleSoft Accounting Entry interface table, PS_FSAH_ACTG_LN.

This table lists the key E-Business Suite tables that are used:

E-Business Suite Table	Description
XLA_AE_HEADERS	Stores the E-Business Suite accounting header information.
XLA_AE_LINES	Stores the E-Business Suite accounting line detail information.
GL_CODE_COMBINATIONS	Stores the chart of accounts segment details.
GL_LEDGERS	Stores the ledger level details.

This table lists the DVMs used by ODI:

DVMs Used by ODI	Description
BUSINESS_UNIT	Maps E-Business Suite Ledger short name to PeopleSoft GL Ledger for a Business Unit.
CURRENCY_CODE	Maps E-Business Suite currency code to PeopleSoft currency code.
CURRENCYEXCHANGE_CONVERSIONTYPECODE	Maps E-Business Suite currency conversion type to PeopleSoft rate type.
JGEN_TEMPLATE	Maps E-Business Suite application short name to PeopleSoft Journal Generator Template ID.

DVMs Used by ODI	Description
CHARTOFACCOUNTS_GLELEMENT	Maps E-Business Suite COA ID and Segment to PeopleSoft ChartField name.
EBIZ_SEGMENT_DEFAULT_VALUES	Maps E-Business Suite default segment values to null (single space) values for PeopleSoft ChartFields.

Performing Post-Installation Steps

This section describes how to set up the ODI after E-Business Suite is installed.

To set up ODI once the installation of E-Business Suite is complete, perform these steps:

1. Set the ODI Password using the SQL script (xlaeipwd.sql). The file is located in E-Business Suite APPLICATION_TOP in this folder: APPL_TOP/xla/12.0.0/patch/115/sql/xlaeipwd.sql
2. Copy the file to your local directory.
3. Run it in the database. You will be prompted to enter the password for the ODI user to be encoded and stored. This is used by the Business Event subscription to call the ODI scenario.
4. Set these E-Business Suite profile options:

Profile Option Short Name	Profile Option Display Name
XLA_EBI_ ODI_WS_URL	EBS Integrations: ODI Web Service End Point URL
XLA_EBI_ ODI_USER	EBS Integrations: ODI User Name
XLA_EBI_ODI_AGENT_HOST_PORT	EBS Integrations: ODI Agent Host Port

To enable the Business event oracle.apps.xla.accounting.postaccounting, from the E-Business Suite user interface, complete these steps:

1. Log in using an ID that has system administrator responsibility.
2. Go to Workflow Administrator Web Applications Responsibility (or Workflow Administrator Responsibility) and select Business Events.
3. In the search field, supply the event name and click Go.
4. If the event is not enabled, update the event and change the status to Enabled.

Setting Up Account Types

Account Types represent basic attributes that control the accounting behavior of the values and combinations.

The account types are delivered with the database when E-Business Suite is installed.

For more information, see Oracle Financial Services Accounting Hub Implementation Guide.

Verify and update the account type mapping to PeopleSoft account types through the AIA DVM, ACCOUNTGLELEMENTVALUESET_ACCOUNT_TYPE_CODE. The following is the shipped example of the mapping in the DVM:

PSFT_01	COMMON	EBIZ_01
SHARE::A	ASSET	A
SHARE::E	EXPENSE	E
SHARE::L	LIABILITY	L
SHARE::Q	EQUITY	O
SHARE::R	REVENUE	R

To access and update the AIA DVMs from Oracle Enterprise Manager - ESB Control, click the Maps icon.

Note that the budgetary account types are not mapped as no corresponding type exists in PeopleSoft.

For more information, see Account Types.

Synchronizing and Updating Value Sets with PeopleSoft ChartFields

Value Sets are the containers that hold the set of reusable values that are tied to corresponding COA segments. Together, the values for all the COA segments form a meaningful combination. The values and the combinations are driven by a set of attributes (account types) that control the accounting behavior.

Value Sets are equivalent to the PeopleSoft combination of setID and ChartField.

For more information, see *Oracle Applications Flexfields Guide,* Defining Value Sets.

To synchronize and update the Value Sets once Value Sets are added in E-Business Suite, you must perform these setup steps:

1. Update or validate the AIA DVM, VALUESET_NAME. This table provides an example of the Value Set mapping in the DVM:

PSFT_01	Common	EBIZ_01

SHARE::CHARTFIELD1	VS001	Operation Company
SHARE::DEPTID	VS002	Operation Department
SHARE::ACCOUNT	VS003	Operation Account

2. The PeopleSoft column within the AIA DVM is informational and used for reference only. Verify that the common values in the AIA DVM and the corresponding PeopleSoft DVM agree.

For more information, see Mapping SetID and ChartField to Value Set.

Synchronizing and Validating the Accounting Flexfield Structure

The accounting flexfield structure represents the basic COA for E-Business Suite. This section describes how to set up the flexfield structure.

To synchronize the Flexfield structure, you must complete these setup steps:

1. Update or validate the AIA DVM, CHARTOFACCOUNTS_GLELEMENT with the correct COA ID-Segment to ChartField mapping. This table provides an example of the AIA DVM mapping:

PSFT_01	Common	EBIZ_01
CHARTFIELD1	CF001	54670-SEGMENT4
DEPTID	CF002	54670-SEGMENT3
ACCOUNT	CF003	54670-SEGMENT2
CHARTFIELD1	CF004	55660-SEGMENT4
DEPTID	CF005	55660-SEGMENT3

For more information, see Synchronizing and Validating ChartField Values to Financials Accounting Hub Chart of Accounts.

2. Validate the AIA DVM, GLELEMENTVALUESET_CONTROL_ACCOUNT_INDICATOR_TYPE . There is no need to update this DVM on an ongoing basis.

3. Update the EBIZ_SEGMENT_DEFAULT_VALUE. DVM, which maps the default E-Business Suite segment value to a PeopleSoft null value (must be a single space for PeopleSoft tables):

DEFAULT_VALUE	SEGMENT
999	54670-SEGMENT4
0001	54670-SEGMENT3

4. Complete the SEGMENT column with the E-Business Suite COA ID-Segment values and the DEFAULT_VALUE column with the corresponding E-Business Suite default value for the segment. The default value for every segment in the E-Business Suite chart of accounts cannot be null or empty. It is a user-defined value, such as 000 or 999. In PeopleSoft, however, the default ChartField value is a single space, which constitutes a null value in PeopleSoft tables. This DMV is used by the ProcessGLAccountValidationEbizReqABCSImpl service and transforms the E-Business Suite default values to the single space that is acceptable to PeopleSoft.
5. Once all GL setup is complete and DVMs are in place and validated, any published ChartField information from PeopleSoft triggers the SyncAccountGLElementValueSetListEbizProvABCSImpl service, which invokes the insert of new values and updates existing values through these APIs:
6. If there are any errors, a notification is sent. Check the FMW BPEL Control (AIA) for incoming published changes from PeopleSoft. Also, verify that the Value Sets and COA have been populated correctly.
    - Import Chart of Accounts Segment Values
    - Segment Value Inheritance

Note: In Windows, if the SyncGLElementValueSet or the SyncAccountGLElementValueSet flows fail due to a binding fault, open the ACCOUNTGLELEMENTVALUESET_ACCOUNT_TYPE_CODE DVM from the ESB console and click the Save button. This should correct the problem. The following error is encountered in the BPEL process: "ORABPEL-08034 JTA Rollback requested. *The current JTA transaction has been aborted due to rollback request received from partner invocation."*

Setting Up Flexfield Qualifiers

Flexfield qualifiers are the set of attributes that add functionality to each segment. For example, the Balancing Segment qualifier represents a balancing segment that ensures debit and credit balancing at this segment level. The Account Segment qualifier is used to enable the account types attributes.

This section describes how to set up flexfield qualifiers.

To set up flexfield qualifiers, you must complete these steps:

1. Access the Flexfield Qualifiers page by clicking the Flexfield Qualifiers button from the Flexfields page.
2. Enable the segment that represents the Business Unit in PeopleSoft as the Balancing Segment. This is equivalent to the Ledger Group – Balancing page in PeopleSoft GL, where the selected balancing field is the Business Unit.

For more information, see Oracle General Ledger Implementation Guide.

Enabling Dynamic Inserts

Dynamic inserts are required to create account code combinations as needed. To enable dynamic inserts to successfully account for the transactions, select the Allow Dynamic Inserts check box on the Flexfield Segments page.

For more information, see Oracle General Ledger Implementation Guide.

Freezing and Compiling the Accounting Structure

Ensure that these concurrent programs complete successfully:

- Program - Generate Ledger Flexfield
- Flexfield View Generator
- Compile Key Flexfields

For more information, see Oracle General Ledger Implementation Guide.

Setting up Currency Codes, Currency Conversion Types, and Currency Exchange Rates

This section describes how to set up currency codes, currency conversion types, and currency exchange rates.

To manually set up the currency codes that are equivalent to the currency codes in PeopleSoft, complete these steps:

1. Associate the Currency Code to each Primary Ledger.
2. Set up the Currency Conversion Types based on which currency rates are selected for foreign currency and multi-currency transactions.

Note: To ensure that EMU currencies are synchronized from PeopleSoft, perform the following configuration: From the Currencies page, query the EMU currency codes and change the Currency Derivation Type field from Euro Derived to blank.

For more information, see Oracle Financial Services Accounting Hub Implementation Guide.

1. Update and validate the currency-related AIA DVMs.

For more information, see Data Requirements.

2. Currency exchange rates are loaded and synchronized by PeopleSoft.

For more information, see Currency Codes, Currency Rate Type, and Currency Exchange Rates.

Synchronizing E-Business Suite Currency Rates with PeopleSoft

The SyncCurrencyExchangeListEbizProvABCSImpl invokes the Daily Rates Import and Calculation process to publish the currency exchange rates from PeopleSoft.

Check the FMW BPEL Control (AIA) for incoming published changes of currency exchange rates from PeopleSoft. If there is an error, a notification is sent.

For more information, see Oracle Financial Services Accounting Hub Implementation Guide.

Setting Up Ledgers

This section describes how to manually set up the primary ledgers using the Accounting Setups page, and mirror the PeopleSoft ledger and business unit combinations.

For more information, see Ledgers and Business Units.

To manually set up ledgers, complete these steps:

1. Specify the fiscal calendar, currency to be used, and journal processing methods & accounting options.
2. Optionally associate the Legal Entity with the Ledger.
3. Define Accounting and Ledger Options like Ledger Short Name, retained earnings account and optionally Journal Processing and Journal Reconciliation options.
4. Assign the balancing segment value to each ledger:
5. Optionally specify the Reporting Currency as per the business requirement.
6. Define Ledger Accounting Methods.
7. Complete Accounting Setup: Generate Accounting Setup Program is triggered.
8. This generates Data Access Sets.
9. Update or verify the AIA DVM, BUSINESS_UNIT.

For more information, see Data Requirements. See also, the *Oracle General Ledger Implementation Guide.*

Enabling User Drillback from PeopleSoft

This section describes how to enable user drillback from PeopleSoft.

To enable user drillback from PeopleSoft, complete these steps:

1. Set up Financials Accounting Hub Responsibilities and assign to the user name.
2. Assign the seeded Responsibility, SLA FSAH Lines Inquiry Drilldown, to the user to enable drillback from PeopleSoft.
3. Associate the Ledger Data Access Sets with responsibility by using the Profile Option Name, “GL: Data Access Set.”

For more information, see Drillback from PeopleSoft GL to Financials Accounting Hub Process Flow and Drilling Back to Financials Accounting Hub Source Entries from PeopleSoft GL.

Enabling PeopleSoft Combination Editing

This section describes how to enable PeopleSoft combination editing.

To enable account combinations to be validated using PeopleSoft combination edit logic, complete these steps:

1. Set the Profile Option,SLA, FAH Enable External Code Combination Validation, to “Yes” on the System Profile Values page by user assignment of responsibility. This profile can have three values 1. Yes 2. No 3. Null (not set). If the value of this profile is 'Yes’ then FSAH would call the PeopleSoft web service for performing code combination validation. Null value indicates that PIP features are not being used.
2. Set the Profile Option, SLA, FAH External Validation Thread Count, to the number of parallel threads that can run on the System Profile Values page by user assignment of responsibility.
3. Set the Profile Option, SLA: FAH External Validation Thread Size, to the number of CCIDs per each thread on the System Profile Values page by user assignment of responsibility.
4. Set the Profile Option, SLA: FAH BPEL server domain, to BPEL Sever Domain on the System Profile Values page by user assignment of responsibility.
5. Set the Profile Option, SLA: FAH proxy server host, to proxy server host name on the System Profile Values page by user assignment of responsibility.
6. Set the Profile Option, SLA: FAH proxy server port, to proxy server port number on the System Profile Values page by user assignment of responsibility.
7. The “Transfer Entries to General Ledger” should not be accessible from the SRS Mode:
    a. Using the Application Developer responsibility, disable the concurrent program, Transfer Journal Entries to GL (XLAGLTRN).

b. Within the Create Accounting concurrent program (XLAACCPB), set the default value to a constant for the Transfer to General Ledger parameter to "No." Also, deselect the Display Flag so that this parameter is not available while running the Create Accounting program.

8. Validate/update the AIA DVM, CHARTOFACCOUNTS_NAME, used in the combination editing process.

For more information, see Data Requirements.

Opening Accounting Periods for the Ledgers

The ledger activity for a calendar period is controlled at the ledger level in Oracle E-Business Suite.

To open accounting periods, complete these setup steps:

1. Manually define the Period types and the periods prior to setting up the calendar to match with the GL periods of PeopleSoft.
2. Manually set up the calendar with appropriate accounting periods. The calendars defined and assigned to an E-Business Suite ledger must match the calendar definition assigned to the corresponding PeopleSoft business unit and ledger. These attributes of the calendar should be the same:
   a. Number of (non-adjustment) accounting periods
   b. Year start date and end date
   c. Start and end dates of accounting periods
3. Synchronize the period statuses with those within PeopleSoft.

For more information, see Synchronizing Open Periods.

Synchronizing and Updating E-Business Suite Open Periods with PeopleSoft GL Open Periods

The following processes are initiated during ProcessAccountingPeriodOpenWindowListEbizABCSImpl:

- Open Period
- Close Period

Upon completion, a status notification listing the periods that were not opened or closed is sent to PeopleSoft.

For more information, see Oracle General Ledger Implementation Guide.

Initiating Transactions from Source Systems

This section describes how to schedule the process entries from the source systems into Financials Accounting Hub.

To process entries from the source systems into Financials Accounting Hub, complete these steps to schedule the Create Accounting Program to run in batch mode:

1. Access the Submit Request page and enter the program name, Create Accounting.
2. Select to save all output files.
3. Select to schedule the request at regular intervals; for example, periodically or specific days.
4. Specify the start date and select the frequency.
5. Save the schedule.

For more information, see Transforming Financials Accounting Hub Accounting Entries to PeopleSoft GL Journals. See also, the *Financial Services Accounting Hub Implementation Guide.*

Setting Up PeopleSoft for the Financials Accounting Hub to PeopleSoft GL Integration

For the Financials Accounting Hub to PeopleSoft GL integration, PeopleSoft is the system of record and is presumably configured and operational.

This section discusses these tasks, which are required for the synchronization of reference data between Financials Accounting Hub and PeopleSoft, and other setup that is needed to post Financials Accounting Hub journals to PeopleSoft GL:.

- Activate service operations, queues, and handlers, and routings.
- Use the chartfield configuration utility with this integration.
- Populate the PeopleSoft DVMs.
- Synchronize account types.
- Map setID and chartfields to value sets.
- Validate chartfield values and combinations to Financials Accounting Hub chart of accounts.
- Synchronize ledgers and business units.
- Synchronize currency codes, currency rate types and currency exchange rates.
- Update the PeopleSoft DVMs used in currency processing.
- Run the Currency Exchange Rates process.
- Synchronize open periods.

- Set up Journal Generator for Financials Accounting Hub entries.
- Drill back to Financials Accounting Hub source journals from PeopleSoft GL.
- Understand journal delete.

Activating Service Operations, Queues, and Handlers, and Routings

The process integration between Oracle's Financials Accounting Hub and PeopleSoft GL delivers services to publish data for synchronization and update of certain data. These services provide:

- Full synchronization for initial loading (or on demand) of COA information and Currency Exchange Rates.
- Incremental synchronization and update of COA information, currency exchange rates, and period statuses.
- Drillback from PeopleSoft journal entries to Financials Accounting Hub entries.
- Synchronization of journal entry deletion between PeopleSoft and Financials Accounting Hub.

Note: For an initial load scenario, high volumes may cause performance issues, which you can manage by chunking the size of the published message. You can choose to publish a ChartField for a particular setID value; for example, publish Account values for the SHARE setID only.

Before publishing information, activate gateways and services for these service operations:

Service Operation/ Description	Message Name	Queue	Routings/Transform Program/ External Alias
EOER_EXCHNG_RATE_ FULLSYNC Exchange rate full sync (all date publish)	EOER_EXCHNG_RATE_FULLSYNC.V1 (in) EOER_EXCHNG_RATE_SYNC_EBM.V1 (out)	EOER_EXCHNG_RATE_ ORDERED **Note:** The EOER_EXCHNG_RATE_ORDERED queue is delivered as Ordered (the Unordered check box is deselected.) Do not select the Unordered check	EOER_EXCHNG_RATE_ FULLSYNC EOER_MSG_XF External Alias = SyncCurrencyExchangeList

Service Operation/ Description	Message Name	Queue	Routings/Transform Program/ External Alias
		box.	
EOER_EXCHNG_RATE_ SYNC Exchange rate incremental sync (all date publish)	EOER_EXCHNG_RATE_S YNC.V1 (in) EOER_EXCHNG_RATE_S YNC_EBM.V1 (out)	EOER_EXCHNG_RAT E	EOER_EXCHNG_RATE_ SYNC EOER_MSG_XF External Alias = SyncCurrencyExchangeList
GETTARGETURL Drillback from PeopleSoft to Financials Accounting Hub	GETTARGETURLREQUES T.V1 GETTARGETURLRESPON SE.V1 GETTARGETURLFAULT.V 1	NA (request/ response)	GETTARGETURL No Transformation External Alias = http://oracle.apps. ebi.urlgenerator// getTargetUrl
GL_CHARTFIELD_ COMBO_EDIT ChartField Combo Edit Operation for Financials Accounting Hub	GL_CHARTFIELD_COMBO _EDIT_ REQ.V1 GL_CHARTFIELD_COMBO _EDIT_ RES.V1	NA request/ response)	GL_CHARTFIELD_ COMBO_EDIT No Transformation External Alias = ComboEdit
GL_DELETE_ACCT_ ENTRY_EBM	GL_DELETE_ACCT_ENTR Y_EBM.V1	GL_ ACCOUNTING_ENTR Y	GL_DELETE_ACCT_ENTRY No Transformation External Alias = DeleteAccounting EntryLi st
GL_PROCESS_ ACCOUNTING_PERIOD	GL_ACCOUNTINGPERIOD _ABM.V1 (in) GL_ACCOUNTINGPERIOD _EBM.V1 (out)	GL_ACCOUNTING_ PERIOD	GL_PROCESS_ ACCOUNTING_PERIOD GL_ACCTP_XF External Alias = ProcessAccounting PeriodOpenWindowList
ACCOUNT_CF_SYNC. VERSION_1	ACCOUNT_CF_SYNC	ENTERPRISE_ SETUP	ACCOUNT_CF_SYNC_LCL No Transformation External Alias = ACCOUNT_CF_SYNC.VERS ION_1
ACCOUNT_CF_ FULLSYNC_EFF.	ACCOUNT_CF_FULLSYNC _ EFF	ENTERPRISE_ SETUP	ACCOUNT_CF_ FULLSYNC_EFF

Service Operation/ Description	Message Name	Queue	Routings/Transform Program/ External Alias
VERSION_1	GL_ACCTVALUESET_SYNCEBM.V1		FSCF_ACCT_XF External Alias = SyncAccountGLElementValueSetList
ACCOUNT_CF_SYNC_EFF.VERSION_1	ACCOUNT_CF_SYNC_EFF GL_ACCTVALUESET_SYNCEBM.V1	ENTERPRISE_SETUP	ACCOUNT_CF_SYNC_EFF FSCF_ACCT_XF External Alias = SyncAccountGLElementValueSetList
ALTACCT_CF_SYNC	ALTACCT_CF_SYNC.VERSION_1	ENTERPRISE_SETUP	ALTACCT_CF_SYNC_LCL No Transformation External Alias = ALTACCT_CF_SYNC
ALTACCT_CF_FULLSYNC_EFF	ALTACCT_CF_FULLSYNC_ EFF.VERSION_1 GL_VALUESET_SYNCEBM.V1	ENTERPRISE_SETUP	ALTACCT_CF_FULLSYNC_EFF FSCF_ALTA_XF External Alias = SyncGLElement ValueSetList
ALTACCT_CF_SYNC_EFF	ALTACCT_CF_SYNC_EFF.VERSION_1 GL_VALUESET_SYNCEBM.V1	ENTERPRISE_SETUP	ALTACCT_CF_SYNC_EFF FSCF_ALTA_XF External Alias = SyncGLElement ValueSetList
DEPT_SYNC	DEPT_SYNC.VERSION_1	ENTERPRISE_SETUP	DEPT_SYNC_LCL No Transformation External Alias = DEPT_SYNC
DEPT_FULLSYNC_EFF	DEPT_FULLSYNC_EFF.VERSION_1 GL_VALUESET_SYNCEBM.V1	ENTERPRISE_SETUP	DEPT_FULLSYNC_EFF FSCF_DEPT_XF External Alias = SyncGLElement ValueSetList
DEPT_SYNC_EFF	DEPT_SYNC_EFF.VERSION_1 GL_VALUESET_SYNCEBM.V1	ENTERPRISE_SETUP	DEPT_SYNC_EFF FSCF_DEPT_XF External Alias = SyncGLElement ValueSetList
OPER_UNIT_CF_SYNC	OPER_UNIT_CF_SYNC.VE	ENTERPRISE_	OPER_UNIT_CF_SYNC_

Service Operation/ Description	Message Name	Queue	Routings/Transform Program/ External Alias
	RSION_1	SETUP	LCL No Transformation External Alias = OPER_UNIT_CF_SYNC
OPER_UNIT_CF_ FULLSYNC_EFF	OPER_UNIT_CF_FULLSYNC_EFF. VERSION_1 GL_VALUESET_SYNCEBM .V1	ENTERPRISE_ SETUP	OPER_UNIT_CF_ FULLSYNC_EFF FSCF_OPER_XF External Alias = SyncGLElement ValueSetList
OPER_UNIT_CF_ SYNC_EFF	OPER_UNIT_CF_SYNC_E FF.VERSION_1 GL_VALUESET_SYNCEBM .V1	ENTERPRISE_ SETUP	OPER_UNIT_CF_ SYNC_EFF FSCF_OPER_XF External Alias = SyncGLElement ValueSetList
PRODUCT_CF_SYNC	PRODUCT_CF_SYNC.VER SION_1	ENTERPRISE_ SETUP	PRODUCT_CF_SYNC_LCL No Transformation External Alias = PRODUCT_CF_SYNC.VERS ION_1
PRODUCT_CF_ FULLSYNC_ EFF	PRODUCT_CF_FULLSYNC _EFF.VERSION_1 GL_VALUESET_SYNCEBM .V1	ENTERPRISE_ SETUP	PRODUCT_CF_ FULLSYNC_EFF FSCF_PROD_XF External Alias = SyncGLElement ValueSetList
PRODUCT_CF_SYNC_ EFF	PRODUCT_CF_SYNC_EFF GL_VALUESET_SYNCEBM .V1	ENTERPRISE_ SETUP	PRODUCT_CF_SYNC_EFF FSCF_PROD_XF External Alias = SyncGLElement ValueSetList
FUND_CF_SYNC	FUND_CF_SYNC.VERSIO N_1	ENTERPRISE_ SETUP	FUND_CF_SYNC_LCL No Transformation External Alias = FUND_CF_SYNC
FUND_CF_FULLSYNC_ EFF	FUND_CF_FULLSYNC_EF F.VERSION_1 GL_VALUESET_SYNCEBM .V1	ENTERPRISE_ SETUP	FUND_CF_FULLSYNC_EFF FSCF_FUND_XF External Alias = SyncGLElement ValueSetList

Service Operation/ Description	Message Name	Queue	Routings/Transform Program/ External Alias
FUND_CF_SYNC_ EFF	FUND_CF_SYNC_EFF.VERSION_1 GL_VALUESET_SYNCEBM.V1	ENTERPRISE_ SETUP	FUND_CF_SYNC_EFF FSCF_FUND_XF External Alias = SyncGLElement ValueSetList
CLASS_CF_SYNC	CLASS_CF_SYNC.VERSION_1	ENTERPRISE_ SETUP	CLASS_CF_SYNC_LCL No Transformation External Alias = CLASS_CF_SYNC
CLASS_CF_FULLSYNC_ EFF	CLASS_CF_FULLSYNC_EFF.VERSION_1 GL_VALUESET_SYNCEBM.V1	ENTERPRISE_ SETUP	CLASS_CF_FULLSYNC_ EFF FSCF_CLAS_XF External Alias = SyncGLElement ValueSetList
CLASS_CF_SYNC_EFF	CLASS_CF_SYNC_EFF.VERSION_1 GL_VALUESET_SYNCEBM.V1	ENTERPRISE_ SETUP	CLASS_CF_SYNC_EFF FSCF_CLAS_XF External Alias = SyncGLElement ValueSetList
PROGRAM_CF_SYNC	PROGRAM_CF_SYNC.VERSION_1	ENTERPRISE_ SETUP	PROGRAM_CF_SYNC_LCL No Transformation
PROGRAM_CF_ FULLSYNC_EFF	PROGRAM_CF_FULLSYNC_EFF. VERSION_1 GL_VALUESET_SYNCEBM.V1	ENTERPRISE_ SETUP	PROGRAM_CF_ FULLSYNC_EFF FSCF_PROG_XF External Alias = SyncGLElement ValueSetList
PROGRAM_CF_SYNC_ EFF	PROGRAM_CF_SYNC_EFF.VERSION_1 GL_VALUESET_SYNCEBM.V1	ENTERPRISE_ SETUP	PROGRAM_CF_SYNC_EFF FSCF_PROG_XF External Alias = SyncGLElement ValueSetList
CHARTFIELD1_SYNC	CHARTFIELD1_SYNC.VERSION_1	ENTERPRISE_ SETUP	CHARTFIELD1_SYNC_LCL No Transformation
CHARTFIELD1_ FULLSYNC_EFF	CHARTFIELD1_FULLSYNC_EFF. VERSION_1 GL_VALUESET_SYNCEBM.V1	ENTERPRISE_ SETUP	CHARTFIELD1_ FULLSYNC_EFF FSCF_CFD1_XF External Alias =

Service Operation/ Description	Message Name	Queue	Routings/Transform Program/ External Alias
			SyncGLElement ValueSetList
CHARTFIELD1_SYNC_ EFF	CHARTFIELD1_SYNC_EFF .VERSION_1 GL_VALUESET_SYNCEBM .V1	ENTERPRISE_ SETUP	CHARTFIELD1_SYNC_EFF FSCF_CFD1_XF External Alias = SyncGLElement ValueSetList
CHARTFIELD2_SYNC	CHARTFIELD2_SYNC.VER SION_1	ENTERPRISE_ SETUP	CHARTFIELD2_SYNC_LCL No Transformation
CHARTFIELD2_ FULLSYNC_EFF	CHARTFIELD2_FULLSYNC _EFF. VERSION_1 GL_VALUESET_SYNCEBM .V1	ENTERPRISE_ SETUP	CHARTFIELD2_ FULLSYNC_EFF FSCF_CFD2_XF External Alias = SyncGLElement ValueSetList
CHARTFIELD2_SYNC_ EFF	CHARTFIELD2_SYNC_EFF .VERSION_1 GL_VALUESET_SYNCEBM .V1	ENTERPRISE_ SETUP	CHARTFIELD2_SYNC_EFF FSCF_CFD2_XF External Alias = SyncGLElement ValueSetList
CHARTFIELD3_SYNC	CHARTFIELD3_SYNC.VER SION_1	ENTERPRISE_ SETUP	CHARTFIELD3_SYNC_LCL No Transformation
CHARTFIELD3_ FULLSYNC_EFF	CHARTFIELD3_FULLSYNC _EFF. VERSION_1 GL_VALUESET_SYNCEBM .V1	ENTERPRISE_ SETUP	CHARTFIELD3_ FULLSYNC_EFF FSCF_CFD3_XF External Alias = SyncGLElement ValueSetList
CHARTFIELD3_SYNC_ EFF	CHARTFIELD3_SYNC_EFF .VERSION_1 GL_VALUESET_SYNCEBM .V1	ENTERPRISE_ SETUP	CHARTFIELD3_SYNC_EFF FSCF_CFD3_XF External Alias = SyncGLElement ValueSetList
PROJECT_FULLSYNC. VERSION_2	PROJECT_FULLSYNC.VE RSION_2 GL_VALUESET_SYNCEBM .V1	ENTERPRISE_ SETUP	PROJECT_FULLSYNC FSCF_PROJ_XF External Alias = SyncGLElement ValueSetList
PROJECT_SYNC. VERSION_2	PROJECT_SYNC.VERSIO N_2 GL_VALUESET_SYNCEBM .V1	ENTERPRISE_ SETUP	PROJECT_SYNC FSCF_PROJ_XF External Alias =

Service Operation/ Description	Message Name	Queue	Routings/Transform Program/ External Alias
			SyncGLElement ValueSetList

To activate integrations on both the publishing and the subscribing databases, complete these steps:

1. Set up and configure the Integration Broker Gateway:
   a. Ping the local gateway to ensure it is running and connectors are loaded – status should be Active. Access: PeopleTools, Integration Broker, Configuration, Gateways.
   b. Click the Gateway Setup Properties link on the Gateways page and ensure that the default local node, usually the database name, has an entry on the PeopleSoft Node Configuration page.
   c. Ensure that the default local node, usually the database name, is appended to the Target Location URL at the service configuration. Access: PeopleTools, Integration Broker, Configuration, Service Configuration.
   d. Verify that the Domain and its IB dispatchers are running. Access: PeopleTools, Integration Broker, Service Operations Monitor, Administration, Domain Status.
2. Activate the node definitions. To activate the node definitions, access: PeopleTools, Integration Broker, Integration Setup, Nodes.

For more information, see PeopleSoft Enterprise PeopleTools PeopleBook: Integration Broker, "Managing Integration Gateways."

3. Activate the service operations. To activate the service operations that are listed for this integration, access PeopleTools, Integration Broker, Integration Setup, Service Operations:
   a. Review service operation security by clicking the Service Operation Security link.
   b. Select Active for General, Handler Status and Routings.

Note: Do not activate the delivered Handler and Local-to-Local routing for the EOER_EXCHNG_RATE_SYNC service operation because these are used for effective date publishing, which is not valid for currency exchange for this integration. Do, however, activate the outbound routing for this service operation as specified in the next step.

4. Activate those delivered local and outbound routings specified in the above table that include external alias and transform properties. Access: PeopleTools, Integration Broker, Integration Setup, Service Operations, Routings:
   a. From the Routings tab, select the Selected check box for the outbound routing whose Receiver Node is PSFT_XOUTBND, and click the Activate Selected Routings button.

b. Click on the routing name to access the Routing Definitions page. On the Routing Definitions page, the sender node is the default local node name.

c. The Receiver Node is the AIA node. Use PSFT_XOUTBND for this release.

d. Click the Connector Properties page, and replace the <id:port> within the PRIMARYURL by the FMW server host name and port number.

Note: For the GETTARGETURL service operation, replace the <id:port> within the PRIMARYURL on the Connector Properties page from http://<id:port>/URLGenerator/URLGeneratorSoapHttpPort to the Host and Port values that are defined for the URLGenerator service in the AIAConfigurationProperties.xml file.

5. After the PSFT resolutions are applied, recycle both the PSFT App Server and the PSFT Process Scheduler (Stop/Clear Cache/Start). Recycling these ensures that all of the new IB objects in the resolutions will work correctly if using PeopleSoft General Ledger 8.9 or 9.0. The step is not necessary if using PeopleSoft General Ledger 9.1.

For more information, see PeopleSoft Enterprise PeopleTools PeopleBook, Integration Broker, "Using the Service Operations Monitor"; PeopleSoft Enterprise PeopleTools PeopleBook, Integration Broker, "Providing Services"; *PeopleSoft Enterprise General Ledger PeopleBook,* "Integrating and Transferring Information among Applications"; and *PeopleSoft Enterprise Components for FSCM PeopleBook,* "Using PeopleSoft Directory Interface."

Using the ChartField Configuration Utility with this Integration

PeopleSoft delivers 16 active ChartFields and 4 inactive ChartFields that can be activated. You can add ChartFields using the PeopleSoft ChartField Configuration utility. Although you can add an unlimited number of ChartFields in PeopleSoft, Financials Accounting Hub supports up to a 30-segment structure.

To activate the delivered inactive ChartFields and create additional ChartFields, complete these steps:

1. Access the Standard Configuration page and activate the delivered inactive ChartFields.

For more information, see *PeopleSoft Enterprise Application Fundamentals PeopleBook,* "Configuring ChartFields," Completing the Standard ChartField Configuration Page.

2. Access the Advanced Configuration page and create new ChartFields as required.

For more information, see *PeopleSoft Enterprise Application Fundamentals PeopleBook,* "Configuring ChartFields," Using Advanced ChartField Configuration.

Note: Although ChartField configuration is not considered to be a customization, this integration requires customization of the accounting entry bulk transaction flow and of the additional message creation for synchronization.

3. For the newly-created ChartFields, create four rowset-based messages by cloning those for existing ChartFields, such as CHARTFIELD1. Access PeopleTools, Integration Broker, Integration Setup, Messages, Message Definition. Be sure to use these suffixes for the four messages:
   a. (NEWCHARTFIELD)_FULLSYNC
   b. (NEWCHARTFIELD)_FULLSYNC_EFF
   c. (NEWCHARTFIELD)_SYNC
   d. (NEWCHARTFIELD)_SYNC_EFF
4. Create and build the view for each new ChartField table (NEWCHARTFIELD_EFFVW) in Application Designer. Clone the CHARTFLD1_EFFVW, for example.
5. Add component SavePostChange PeopleCode (NEWCHARTFIELD.GBL.SavePostChange). Use CHARTFIELD1.GBL as an example.
6. Create the Transformation Application Engine program. Clone FSCF_CFD1_XF and supply the appropriate program properties.
   a. Clone the Step01.OnExecute PeopleCode of the CHARTFIELD1 and replace the reference to the message name.
   b. Clone the Step02.XLST code for the CHARTFIELD1, replacing the ChartField name and ChartField table name with that for the new ChartField.
7. Add the Services and Service Operations by cloning those for CHARTFIELD1. Make sure that the name of the Service Operation matches the name of the Message.

For more information, see Activating Service Operations, Queues and Handlers.

8. Add the new ChartField(s) to the PeopleSoft DVMs, ChartfieldValueSetDVM and ChartFieldDVM, as well as the AIA DVMs, VALUESET_NAME and CHARTOFACCOUNTS_GLELEMENT. Supply the appropriate common codes and make sure they match between the corresponding PeopleSoft and AIA DVMs. For PeopleSoft DVMs, access the Populate Domain Value Maps page (Enterprise Components, Integration Definitions, Transformation Framework, Populate Domain Value Maps.)

   To access the AIA DVMs from Oracle Enterprise Manager - ESB Control, click the  Maps icon.
9. Set up Full Data Publish Rule. Access Enterprise Components, Integration Definitions, Full Data Publish Rules. Select the Message Name. Complete the Full Table Publish Rule, Record Mapping and Language pages. Follow one of the delivered Full Eff Data Publish Rule, like *ACCOUNT_CF_FULLSYNC_EFF* and *DEPT_FULLSYNC_EFF*.
10. Set up the Full Data Publish Run Control. Access the Full Data Publish page (Enterprise Components, Integration Definitions, Initiate Processes, Full Data Publish.)

11. Set up the Delayed Message Publish. Access the Effective Date Pub page (Enterprise Components, Integration Definitions, Initiate Processes, Effective Date Publish).

Note: Update the PS_FSAH_ACTG_LN Target Datastore definition in ODI to reflect ChartFields that were added using the ChartField Configuration Utility (specifically to the CF12_AN_SBR sub-record). Customization of the ODI artifacts is required.

Populating the PeopleSoft DVMs

The AIA DVMs are maintained in the AIA layer and are used to transform the messages from one system to the expected format of the other system.

PeopleSoft delivers corresponding DVMs for use with this integration. These are called Transformation Framework Static Maps. Use these to map the reference data to common key values that match those that are maintained in the AIA layer DVMs. This mapping enables the transformation of data upon transfer through ODI, as well as the transformation of PeopleSoft ABM (Application Business Message) to EBM (Enterprise Business Message) within PeopleSoft.

To populate PeopleSoft DVMs, you must complete these setup tasks:

1. Map the reference data to common key values that are maintained in the AIA layer. Financials Accounting Hub maps their data to the common key values that are stored in AIA. This allows the transformation of data upon transfer through Oracle Data Integrator (ODI) using the new structures delivered by PeopleSoft. Access AIA DVMs from Oracle Enterprise Manager - ESB Control, Maps icon.
2. Access the Populate Domain Value Maps page (Enterprise Components, Integration Definitions, Transformation Framework, Populate Domain Value Maps.) Update and synchronize the PeopleSoft DVMs prior to running any initial loads or initiating any incremental transactional flows. Review all DVMs, including those that are pre-seeded.

This table lists the PeopleSoft DVMs that must be updated in order to synchronize data from PeopleSoft to the corresponding DVMs in the AIA layer:

DVM (stored in PSFT)	Description
AccountTypeDVM	PeopleSoft Account Type DVM
BULedgerDVM	PeopleSoft business unit and ledger mapping
CURRENCY95CODE	PeopleSoft currency code mapping
CONVERSIONTYPECODE	PeopleSoft currency exchange rate type code
ChartfieldValueSet	PeopleSoft setID to EBiz Value Set mapping
ChartFieldDVM	PeopleSoft ChartField to EBiz Segment mapping
LanguageCodeDVM	PeopleSoft Language Code mapping

For more information, specifically a complete listing of all AIA and PeopleSoft DVMs, see Domain Value Maps in the Financials Accounting Hub to PeopleSoft GL Integration.

PeopleSoft GL does not publish data that is required for the setup of calendars, currency rate types, currency codes, or ledgers in E-Business Suite. These must be manually created and synchronized in both PeopleSoft and E-Business Suite. Remember that any AIA DVM with a corresponding PeopleSoft DVM should be maintained in both PeopleSoft and in AIA. The AIA DVMs map the data in the EBIZ_01 column to the COMMON column, and the PeopleSoft DVMs map the data in the COMMON column to the PSFT_01 column. The PeopleSoft values within the AIA DVMs are provided as reference only for those DVMs that exist in both PeopleSoft and AIA.

Synchronizing Account Types

A DVM is required to store account type. This data is static by nature and, since this DVM is delivered pre-seeded, updates are probably not necessary. However, you should review and verify all DVMs. PeopleSoft Account Types are user-defined data instead of system-delivered setup.

To synchronize account types, complete these tasks:

1. Access the PeopleSoft DVM called AccountTypeDVM that is used to manually synchronize account types between PeopleSoft and Financials Accounting Hub.
2. Review this pre-seeded DVM to make sure that the common values match those in the AIA DVM.
3. Verify that the values are correct and if there are changes, communicate them to the Financials Accounting Hub administrator.

This table is an example of the AIA DVM, ACCOUNTGLELEMENTVALUESET_ACCOUNT_TYPE_CODE:

PSFT_01	Common	EBIZ_01
SHARE ::A	ASSET	A
SHARE ::E	EXPENSE	E
SHARE ::L	LIABILITY	L
SHARE ::Q	EQUITY	O
SHARE ::R	REVENUE	R

This table shows the corresponding PeopleSoft DVM, AccountTypeDVM:

SetID	Account Type	Common
SHARE	A	ASSET
SHARE	E	EXPENSE
SHARE	L	LIABILITY
SHARE	Q	EQUITY
SHARE	R	REVENUE

Notice that each account type is mapped to a value in the COMMON column. This value must exist in the corresponding AIA DVM, ACCOUNTGLELEMENTVALUESET_ACCOUNT_TYPE_CODE.

For more information about PeopleSoft account types, see *PeopleSoft Enterprise Application Fundamentals PeopleBook: Defining and Using ChartFields.*

Mapping SetID and ChartField to Value Sets

Since E-Business Suite does not use TableSet sharing, each E-Business Suite Value Set must be mapped to a PeopleSoft combination of setID and ChartField. For example, the combination of setID SHARE and the Operating Unit ChartField can be mapped to Value Set OPER_ALL, and for any Operating Unit values that are added or updated in PeopleSoft with a SHARE setID, a corresponding value for ValueSet OPER_ALL will be added or updated in Financials Accounting Hub, as shown here:

SETID	PSFT ChartField	E-Biz Value Set
SHARE	OPERATING_UNIT	OPER_ALL
USA	ACCOUNT	ACCT_US
SHARE	DEPARTMENT AFFILIATE	DEPT_SH
USA	CHARTFIELD_1	CATG_US
USA	PRODUCT	PROD_US
CAN	ACCOUNT	ACCT_CA
CAN	DEPARTMENT	DEPT_CA

This integration provides dynamic mapping between E-Business Suite Value Sets and PeopleSoft ChartFields by setID. Perform these setup steps:

1. Populate the delivered PeopleSoft DVM called ChartfieldValueSetDVM. This table represents the mapping in the PeopleSoft DVM:

SETID	ChartField	Common
SHARE	CHARTFIELD1	VS001
SHARE	DEPTID	VS002
SHARE	ACCOUNT	VS003

2. Make sure that the common values are the same in both the PeopleSoft DVM and the AIA DVM called VALUESET_NAME. This table represents the mapping in the AIA DVM:

PSFT_01	Common	EBIZ_01
SHARE::CHARTFIELD1	VS001	Operation Company

PSFT_01	Common	EBIZ_01
SHARE::DEPTID	VS002	Operation Department
SHARE::ACCOUNT	VS003	Operation Account

3. If multi-GAAP ledgers are setup in E-Business Suite, the segment Value Sets should be the same across these ledgers.
4. Be aware that any errors in the mapping could result in errors during the validation process or could result in validating against the wrong ChartField value. Errors are handled as unexpected errors. They are logged and the Integration specialist is notified. If a DVM value is not found for a corresponding key, the native source value is used with a pre-pended value.
5. Before attempting to perform the initial load of chart of accounts consider this checklist:
   a. PSFT GL setup and E-Business Suite setup is complete.
   b. E-Business Suite setup mirrors PeopleSoft GL.
   c. Integration setup between PSFT and Financials Accounting Hub is complete.
   d. Domain Value Mappings are complete for Ledgers and ChartFields
   e. Integration has been tested.
   f. Bundles and patches are built and tested for migration.
   g. Integration objects have been migrated to production.
   h. Integration is ready for go-live.
6. Once all of the above requirements are satisfied:
   a. Do a full publish of ChartField data; for example, during implementation. See ChartField Value Full Publish Steps.
   b. Set up the recurrent effective date publishing utility.
   c. Any online additions or updates to ChartFields trigger an incremental publish of data.
7. When the process is complete, a status notification is sent to PeopleSoft, including any errors, if applicable.

Warning! Before attempting to publish data, see Activating Service Operations, Queues and Handlers.

For more information, see *PeopleSoft Enterprise Application Fundamentals PeopleBook: Defining and Using ChartFields.*

ChartField Value Full Publish Steps

For ChartField Value initial (full) effective-date (except Project which is all-date) publishing:

1. To create a run control, access the Full Data Publish page (Enterprise Components, Integration Definitions, Initiate Processes, Full Data Publish). Select the chartfield full-sync message name from this list: ACCOUNT_CF_FULLSYNC_EFF, ALTACCT_CF_FULLSYNC_EFF, BUDGET_REF_CF_FULLSYNC_EFF, CHARTFIELD1_FULLSYNC_EFF, CHARTFIELD2_FULLSYNC_EFF, CHARTFIELD3_FULLSYNC_EFF, CLASS_CF_FULLSYNC_EFF, DEPT_FULLSYNC_EFF, FUND_CF_FULLSYNC_EFF, OPER_UNIT_CF_FULLSYNC_EFF, PRODUCT_CF_FULLSYNC_EFF, PROGRAM_CF_FULLSYNC_EFF and PROJECT_FULLSYNC.
2. Click Run and choose the EOP_PUBLISHT Application Engine process (Full Table Data Publish) to publish the chartfield values to Financials Accounting Hub.
3. Check the publishing status in the service operations monitor for asynchronous services.
4. Click the hyperlink for the corresponding chartfield full-sync Service Operation (same name as the chartfield full-sync message name) to make sure the status is Done.

Note that the chartfield value initial publishes are controlled by the delivered chartfield full data publish rules (Enterprise Components, Integration Definitions, Full Data Publish Rules, the search by message name). Those rules are pre-defined, and no changes are required.

For ChartField Value future-date (when becomes current) publishing:

5. To create a recurrent run control, access the Effective Date Publish page (Enterprise Components, Integration Definitions, Initiate Processes, Effective Date Publish). Select the chartfield effective-date message name from this list: ACCOUNT_CF_SYNC_EFF, ALTACCT_CF_SYNC_EFF, BUDGET_REF_CF_SYNC_EFF, CHARTFIELD1_SYNC_EFF, CHARTFIELD2_SYNC_EFF, CHARTFIELD3_SYNC_EFF, CLASS_CF_SYNC_EFF, DEPT_SYNC_EFF, FUND_CF_SYNC_EFF, OPER_UNIT_CF_SYNC_EFF, PRODUCT_CF_SYNC_EFF, and PROGRAM_CF_SYNC_EFF.
6. Click Run, assign the Recurrence value (suggested to run this process nightly) and choose the EOP_PUBLISHE Application Engine process (Effective Date Publish) to publish the future-dated chartfield values to Financials Accounting Hub when they become current.
7. Check the publishing status in the service operations monitor for asynchronous services.
8. Click the hyperlink for the corresponding chartfield effective-date Service Operation (same name as the chartfield effective-date message name) to make sure the status is Done.

For more information, see PeopleSoft Enterprise Components for FSCM PeopleBook, “Using the Effective Date Publish Utility.”

Validating ChartField Values and Combination to Financials Accounting Hub Chart of Accounts

This section describes how to validate chart of account values and combinations between PeopleSoft and Financials Accounting Hub.

To validate the chart of account values and combinations between PeopleSoft and Financials Accounting Hub, perform these setup tasks:

1. Populate the PeopleSoft DVM, ChartFieldDVM, with the latest ChartFields by setID and map them to the common code. This table is an example of the PeopleSoft DVM:

ChartField	Common
CHARTFIELD1	CF001
DEPTID	CF002
ACCOUNT	CF003
CHARTFIELD1	CF004
DEPTID	CF005

2. Verify that the AIA DVM, CHARTOFACCOUNTS_GLELEMENT, has the correct COA segment to ChartField mapping and the common codes are correct in both DVMs. This table provides an example of the AIA DVM mapping:

PSFT_01	Common	EBIZ_01
CHARTFIELD1	CF001	54670-SEGMENT4
DEPTID	CF002	54670-SEGMENT3
ACCOUNT	CF003	54670-SEGMENT2
CHARTFIELD1	CF004	55660-SEGMENT4
DEPTID	CF005	55660-SEGMENT3

Synchronizing Ledgers and Business Units

The ledger setup in E-Business Suite is driven by the ledger setup; in PeopleSoft GL, the ledger (within ledger group) derives its calendar and other setup from the business unit definition. Therefore, the combination of business unit and ledger in PeopleSoft maps to a ledger in E-Business Suite.

This mapping enables the synchronization of open periods since PeopleSoft maintains period status by business unit and ledger as opposed to just ledger, like E-Business Suite. It is also used by the combination edit process and leveraged by ODI for the posting of entries for Financials Accounting Hub.

To implement this integration, perform these steps:

1. Ensure that the ledger setup in E-Business Suite mirrors the ledgers in PeopleSoft GL.
2. Access the PeopleSoft DVM, BULedgerDVM, and populate it with the appropriate common code mapping for the ledgers within the business units. This table presents an example of the PeopleSoft DVM:

BUSINESS_UNIT	Ledger	Common
US001	LOCAL	LED01
US001	EURO	LED02
CAN01	LOCAL	LED03

This table presents the DVM in AIA called BUSINESS_UNIT that contains the mapping for the transformation:

PSFT_01	Common	EBIZ_01
US001::LOCAL	LED01	US_001
US001::EURO	LED02	US_001RL
CAN01::LOCAL	LED03	CAN_01

Notice that the combination of business unit US001 and LOCAL ledger are mapped to one common value, LED01, which is used as the identifier of this combination to map to the respective ledger within Oracle GL.

For more information, see *PeopleSoft Enterprise Application Fundamentals PeopleBook: Setting Up Ledgers.*

Synchronizing Currency Codes, Currency Rate Types, and Currency Exchange Rates

This section describes the tasks and the corresponding PeopleSoft pages to use to add and update currency codes, rate types, and market rates so that currency exchange rates can be calculated.

To synchronize currency codes, currency rate types, and currency exchange rates, perform these steps:

1. Manually update the PeopleSoft DVMs for Currency Code, Rate Type and Language Code.
2. Manually synchronize with E-Business Suite the corresponding AIA DVMs.
3. Verify that the Auto Reciprocate check box is selected within the Currency Quotation Method for all currencies.
4. Prior to running a full synchronization for currency exchange rates, verify that all of the necessary reciprocal rates exist. If not, run the Cross/Reciprocal Rate Calc process (EO9030.sqr).
5. After running the Cross/Reciprocal Rate Calc process (EO9030.sqr), always rerun the full synchronization since the EO9030.sqr does not trigger the publishing of the newly-calculated data.

6. Once all setup is complete and all DVMs have been updated and synchronized, run a full publish to load the currency exchange rates to Financials Accounting Hub.

7. If there are errors, PeopleSoft will receive an error message once the process is complete.

This table lists PeopleSoft pages and their usage with respect to this integration:

Page Name	Object Name	Usage
Currency Code	CURRENCY_CD_TABLE	Use the Currency Code page in PeopleSoft to add or maintain currency codes and manually synchronize with Financials Accounting Hub Currency Code.
Rate Type	RT_TYPE_TBL	Use the Rate Type page in PeopleSoft to add or maintain currency rate types and manually synchronize with the E-Business Suite rate types.
Populate Domain Value Maps	EOTF_POPULATE_DVMS	Update the pre-seeded currency code and currency rate type DVMs.
Full Data Publish	EO_FULLDATAPUB	Run this process for initial (full) all-date publishing of exchange rates and synchronization of currency exchange rates between participating applications.
Market Rate	RT_RATE_PNL	Add or maintain the exchange rates and synchronize them with E-Business Suite. Upon clicking Save, the updates that are made to this page invoke the service that transports the PeopleSoft exchange rates to load and synchronize within Financials Accounting Hub.

Exchange Rate is one type of Market Rate. PeopleCode filters out non-exchange rates.

For more information, see *PeopleSoft Enterprise Global Options and Reports PeopleBook, "Processing Multiple Currencies."*

Updating the PeopleSoft DVMs Used in Currency Processing

Currency codes, currency rate types and language codes are manually loaded in Financials Accounting Hub during implementation. These codes are synchronized between PeopleSoft and Financials Accounting Hub using DVMs, which are delivered (pre-seeded) and maintained manually.

Whenever currency codes, rate types, or language codes are added or changed, the PeopleSoft DVMs must be manually updated and communicated to Financials Accounting Hub so that the corresponding DVMs in the AIA layer are updated accordingly.

To update the DVMs and communicate the changes, perform these steps:

1. Review and update, if necessary, the PeopleSoft DVMs listed in this section, upon implementation as well as when changes occur.
2. Make sure the common values are the same in the corresponding AIA DVMs.
3. Communicate changes to the AIA administrator.

Updating Currency Code DVM - CURRENCY95CODE

Access the PeopleSoft DVM, CURRENCY95CODE. This table represents the PeopleSoft DVM:

Currency CD	Common
USD	CC000
CAD	CC001
ESP	CC002
EUR	CC003

This table represents the corresponding AIA DVM, CURRENCY_CODE:

PSFT_01	Common	EBIZ_01
USD	CC000	USD
CAD	CC001	CAD
ESP	CC002	ESP
EUR	CC003	EUR

Updating Currency Conversion Type DVM - CONVERSIONTYPECODE

Access the PeopleSoft DVM, CONVERSIONTYPECODE. This table represents the PeopleSoft DVM:

RATE_TYPE	Common
CRRNT	RT001

This table represents the corresponding AIA DVM, CURRENCYEXCHANGE_CONVERSIONTYPECODE:

PSFT_01	Common	EBIZ_01
CRRNT	RT001	C

Updating Language Code DVM - LanguageCodeDVM

Access the PeopleSoft DVM, LanguageCodeDVM. This table represents the PeopleSoft DVM:

LANGUAGE_CD	Common
ENG	LAN01

This table represents the corresponding AIA DVM, LANGUAGE_CODE:

PSFT_01	Common	EBIZ_01
ENG	LAN01	US

For more information, specifically for a list of all DVMs that must be updated and synchronized for this process, see **Synchronizing Currency Exchange Rates for the Integration Process, Data Requirements**.

Note: All DVMs should be synchronized before you run any initial loads or initiate any incremental transactional flows.

Running the Currency Exchange Rates Process

Adding or updating the exchange rates in PeopleSoft triggers a PeopleCode save event, which invokes the synchronization of currency exchange rates between Financials Accounting Hub and PeopleSoft for incremental or ongoing synchronization.

Note: The exchange rate and its auto-generated reciprocal rate are included in one Integration Broker message by PeopleCode and published to AIA.

Note: During implementation, consider disabling the Recalc Currency Exchange Rates option in the Online Journal Edit Defaults section within User Preferences to disallow recalculation of the currency exchange rates during journal edit. Doing so would prevent differences between Financials Accounting Hub and PeopleSoft exchange rates after the transfer of entries.

To run the Cross/Reciprocal Rate Calc process (EO9030.sqr), perform these steps:

1. Set the parameters and run the Cross/Reciprocal Rate Calc process (EO9030.sqr) to create a report that calculates cross-reciprocal rates (Set Up Financials/Supply Chain, Common Definitions, Market Rates, Cross/Reciprocal Rate Calc.)

   Use this process to generate the missing reciprocal rates for exchange rate data or to update existing reciprocal rates that are different from the values derived by their counterpart rates:

   a. Select the default exchange rate index as the value for the Market Rate Index (for example, MODEL).

   b. Enter the values for the From Common Currency, Exchange Rate Type, and As of Date.

c. Select the check boxes for Generate Reciprocal Rate and Override Existing Rates.

d. Select the Generate Report check box if you want to see which reciprocal rates are generated or updated by this process.

e. For reciprocal rates only, this process uses the As of Date to generate or update all of the reciprocal rates on or before that date. Enhancements for this process may be forthcoming.

2. Always rerun the full synchronization after running the Cross/Reciprocal Rate Calc process (EO9030.sqr) since the sqr does not trigger the publishing of the newly-calculated data.

For more information, see PeopleSoft Enterprise Global Options and Reports PeopleBook, "Processing Multiple Currencies."

For initial (full) all-date publishing, perform these steps:

1. To create a run control, access the Full Data Publish page (Enterprise Components, Integration Definitions, Initiate Processes, Full Data Publish). Select the message name, EOER_EXCHNG_RATE_FULLSYNC.

2. Click Run and choose the EOP_PUBLISHT Application Engine process (Full Table Data Publish) to publish the exchange rates to Financials Accounting Hub.

3. Check the publishing status in the service operations monitor for asynchronous services.

4. Click the link for Service Operation, EOER_EXCHNG_RATE_FULLSYNC, to make sure the status is Done.

Note that the full data publish for message EOER_EXCHNG_RATE_FULLSYNC is controlled by its delivered full data publish rule. A delivered chunking rule (EXCHANGE_RATE) is attached to the publish rule, which chunks the exchange rate publishing by the rate type and the effective date, so that the rate and its reciprocal rate are included in one IB message. This integration requires chunking to avoid the recalculation of reciprocal rates within E-Business Suite, since the recalculation may introduce rounding issues on rates.

There is a slight chance that rates in one specific combination of rate type and effective date are chunked further when the publishing size reaches the maximum application message size, which may cause some rates and their reciprocal rates to be in separate IB messages. If that happens, please increase the Maximum App Message Size on the PeopleTools Options page (PeopleTools, Utilities, Administration, PeopleTools Options).

For more information, see *PeopleSoft Enterprise Components for FSCM PeopleBook, "Using the Effective Date Publish Utility."*

Synchronizing Open Periods

This section provides an overview of the accounting period integration process and discusses:

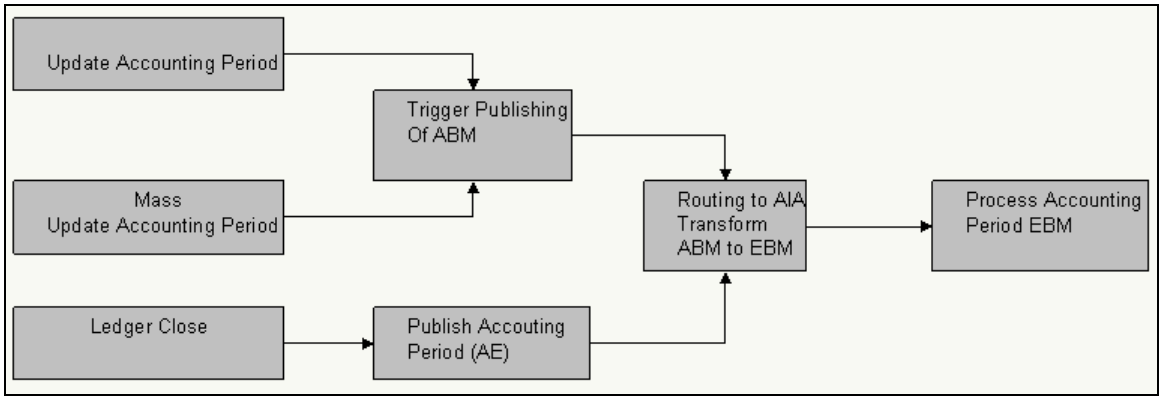
- Initial load of accounting period statuses to Financials Accounting Hub.
- Publishing of ongoing updates to open periods from PeopleSoft to Financials Accounting Hub.

Open Period Data Publish from PeopleSoft to Financials Accounting Hub Overview

The initial load of accounting period statuses must be done by running the GL_FSAH_APFS Application Engine process.

For more information, see Initial Load of Accounting Period Statuses to Financials Accounting Hub.

For ongoing processing, incremental synchronization of period statuses is triggered by a number of events. This workflow diagram shows the incremental data publishing process that is invoked by the respective actions:



Events that trigger the Incremental data publishing process

These events trigger the publishing of accounting period status updates to Financials Accounting Hub:

- Changes to the PeopleSoft accounting period statuses from using the Open Period Update page for individual ledger groups for a business unit.
- Changes to the Open Period Mass Update page.
- Running the ledger close process.

When PeopleSoft period statuses are updated using either the Open Period Update page or the Open Period Mass Update page, a PeopleCode change invokes the AccountingPeriodPeopleSoftJMSProducer service to publish the updates to Financials Accounting Hub.

Period status information is sent only for:

- GL product
- DEF (Default) Transaction type

The ABM publishes the following period status information:

- Business unit
- Ledger group
- Start date of the first accounting period open

- End date of the last accounting period open

Financials Accounting Hub uses the same accounting calendar as PeopleSoft. In PeopleSoft, The accounting periods are opened and closed at the business unit and ledger group level. The period status is maintained in PeopleSoft, and the statuses by ledger are synchronized in Financials Accounting Hub.

This section documents the DVMs that must be updated, and this table lists the corresponding PeopleSoft pages that are used to open and synchronize periods:

Page Name	Object Name	Usage
Application Engine Request	AE_REQUEST	Run the GL_FSAH_APFS Application Engine program to publish the initial open period statuses to Financials Accounting Hub at implementation.
Open Period Update	OPEN_PERIOD_SINGLE	Update open periods in PeopleSoft for a single ledger group within a general ledger business unit. This action triggers the publishing of the ABM and the service that updates the open periods accordingly in Financials Accounting Hub.
Open Period Mass Update	OPEN_CLOSE_PERIODS	Update open periods in PeopleSoft for multiple business units and ledger groups at once. This action triggers the publishing of the ABM and the service that updates the open periods accordingly in Financials Accounting Hub.
Ledger Close Request	***CLOSE_REQUEST***	Specify the process request parameters to perform an interim or year-end close for one or more business units. This action kicks off an Application Engine process, GL_FSAH_MSG, which publishes the year-end or interim close data to Financials Accounting Hub.

Initial Load of Accounting Period Statuses to Financials Accounting Hub

To perform initial load of accounting period statuses:

1. Access the Application Engine Request page.
2. Create or select a run control called GL_FSAH_APFS.
3. Click Run and select the GL_FSAH_APFS Application Engine process.
4. Upon completion, the data is published for all existing ledgers to Financials Accounting Hub and updated accordingly.

Incremental Publish of Accounting Period Statuses to Financials Accounting Hub

Use the Open Period Updates page to update open periods for one business unit and ledger group at a time. Or, access the Open Period Mass Update page to update open periods for multiple business units and ledger groups at once. Updating these pages triggers the GL_PROCESS_ ACCOUNTING_PERIOD service operation, which sends the accounting period status information to Financials Accounting Hub.

For more information, see *PeopleSoft Enterprise Application Fundamentals PeopleBook*, "Defining Accounting Calendars, Performing Open Period Updates," and *PeopleSoft General Ledger PeopleBook*, "Managing Interim and Year-End Closing."

Setting Up Journal Generator for Financials Accounting Hub Entries to PeopleSoft GL

Set up PeopleSoft Journal Generator to receive accounting entries from Financials Accounting Hub. The PeopleSoft Journal Generator process creates general ledger journal entries after ODI has extracted, transformed and loaded the accounting entries into the PS_FSAH_ACTG_LN table. The process uses the record and field names from the new accounting entry definition to extract data from the new accounting entry table and create PeopleSoft GL journals.

To set up and run Journal Generator for this integration, complete these steps:

1. Review the new Accounting Entry Definition (FSAH under the SHARE setID) that is delivered for exclusive use by Financials Accounting Hub transactions. Check these parameters:

a. Make sure this definition points to the Financials Accounting Hub accounting entry table, PS_FSAH_ACTG_LN for the Record and Record Update fields.

b. The Accounting Entry Page Name should be FSAH_ACTG_DRILL and cross-product drilldown should be enabled. The Journal Generator process reads this definition to create journal entries from the Financials Accounting Hub accounting entries and to enable drillback.

c. Check that the Accounting Entry Definition accesses the new System Source, JGen-FSAH.

d. Create a new Journal Source (such as FAH) to identify the Financials Accounting Hub entries.

e. Verify the accounting entry field names of the PS_FSAH_ACTG_LN record that map directly to the General Ledger ChartField names. Update if necessary.

f. Specify the summarization of journal entries into the PeopleSoft GL from Financials Accounting Hub.

2. On the Journal Generator Template component, verify the following:

a. Select the newly-created Journal Source (such as FAH) on this page and supply a meaningful Journal ID Mask to identify the journals from Financials Accounting Hub.

b. Map the template name in the JGEN_TEMPLATE AIA DVM. If you create new templates, be sure to update the AIA DVM for the new template value.

c. Specify the summarization options for the Financials Accounting Hub accounting entries to be posted into PeopleSoft GL.

d. Select the Accounting Entry in Synch check box under Options so that the multiple-ledger accounting lines will function correctly.

3. Create the Journal Generator Request, specifying the FSAH Journal Generator Template and the FSAH Accounting Definition Name.

Note: Financials Accounting Hub does not leverage PeopleSoft trees nor does the Financials Accounting Hub to PeopleSoft GL integration support Entry Event.

For more information, see *PeopleSoft Enterprise Application Fundamentals PeopleBook: Using Journal Generator.*

Drilling Back to Financials Accounting Hub Source Entries from PeopleSoft GL

When PeopleSoft Journal Generator creates journal entries from the Financials Accounting Hub accounting entries, errors may arise or there may be a need to research the source transactions in Financials Accounting Hub. This integration delivers drillback capability from PeopleSoft to the source entries in Financials Accounting Hub.

Strict logon security must be enforced between the applications. When drilling back from PeopleSoft to Financials Accounting Hub, the integration provides a URL to the Financials Accounting Hub transactions; however, those users who require drillback capability are required to log on to Financials Accounting Hub before viewing the transactions.

The following security is handled by Financials Accounting Hub:

- Those users who require drillback capability should be registered with login credentials in E-Business Suite and have access to the seeded responsibility for the FAH Accounting Entry page.

For more information, see Setting Up E-Business Suite, Enable User Drillback from PeopleSoft.

- Make sure that the SOA_HOST and SOA_PORT values within the AIA Property Configuration file are set to use the correct values. This setting links the correct page for the corresponding Journal ID.

For more information, see Configuring the Process Integration for Financials Accounting Hub, URL Generator Service.

Drillback is operational when PeopleSoft GL and Financials Accounting Hub installation and setup is complete. Neither Financials Accounting Hub nor PeopleSoft users require training for inquiring on the data in either application because it is intuitively presented.

Page Used to Drill Back to Financials Accounting Hub Entries

Page Name	Object Name	Usage
FAH Accounting Entry	FSAH_ACTG_DRILL	Drill back from the PeopleSoft journal entry to the original entry in Financials Accounting Hub to review details.

FAH Accounting Entry Page

A new component, FAH Accounting Drill (FSAH_ACTG_DRILL), is created to facilitate this requirement, which includes a new page, FAH Accounting Entry (FSAH_ACTG_DRILL).

Access the FAH Accounting Entry page. This page displays the journal line keys along with all the accounting lines that compose this journal line (one or multiple accounting lines can be summarized to one journal line).

From the Misc tab, an FAH ID link is provided to drill back to the FAH ID. You are prompted to sign on to Financials Accounting Hub with credentials.

The FAH Accounting Entry page also provides a link, GL Journal, to further drill to the Journal Lines page in the Journal Status component.

The drillback feature requires a cross-reference of the language codes between the applications. Use the pre-seeded DVM to map the Financials Accounting Hub language code to the PeopleSoft language code, LanguageCodeDVM.

Note: Authorization for the FSAH_ACTG_DRILL component must be set under the Process Journal (PROCESS_JOURNALS) menu.

Understanding Journal Delete

A new System Source, GFH, is delivered as a reserved translate value for Financials Accounting Hub. This system source is selected on the Accounting Entry Definition.

When you delete a PeopleSoft journal entry with the new integration system source, GFH, using the Journal Lines page, it triggers a field change in the PeopleCode logic and these events occur:

1. The system then checks if the entry was created by the Journal Generator. If so, the system looks up the Accounting Entry Definition setup and resets the GL distribution status flag of the corresponding accounting entry lines to ‘X’ (Waiting for Reversal). In this way, it will not be picked up again by Journal Generator until the reversal is sent to PeopleSoft and then ODI resets the ‘X’ to ‘‘N’ so that it can be picked up again.
2. After the GL journal deletion and reset of the GL distribution status flag to “X”, the PeopleSoft system generates an asynchronous notification message (web service) to Financials Accounting Hub. It uses the DeleteAccountingEntryListEBM message to do this.
3. One or more Financials Accounting Hub headers (AE_HEADER_ID) may be affected by deleting a single GL journal in PeopleSoft. In such a case, the Data Area element in the EBM repeats, and its occurrence is equal to the number of Financials Accounting Hub headers. In other words, each deletion of a single GL journal will generate a single EBM message, which contains one or more DataArea elements representing all the Financials Accounting Hub headers affected.

To manually re-publish the DeleteAccountingEntry message in the event it is lost due to an environment issue such as a server error, complete these steps:

1. From the BPEL console, copy the XML message from the original message instance in trouble.
2. Manually invoke a new instance of this message and paste the XML data to this manually published message.

Note: This type of environment error can happen to any asynchronous message services within the AIA infrastructure. It can be fixed by republishing the data through corresponding PeopleSoft pages; however, republishing the data is not possible with the journal deletion.

Appendix - Accounting Entry Interface Table

This table lists columns from the new PeopleSoft Accounting Entry interface table (PS_FSAH_ACTG_LN) for which values are derived using ODI transformation and leveraging AIA DVMs:

PSFT Column	PSFT Column Description	Comments
BUSINESS_UNIT_GL	GL business unit for the entry	This column is populated by ODI using the AIA DVM, BUSINESS_UNIT, which maps EBiz Ledger Short Name with PSFT Business Unit
BUSINESS_UNIT	Application (feeder system) business unit.	This column is populated by ODI using the AIA DVM which maps EBiz Ledger Short Name with PSFT Business Unit
GL_DISTRIB_STATUS	Set this to N for incoming accounting entries. The Journal Generator process changes the value to D (Distributed) when it distributes the accounting entry to a general ledger journal. The Journal Generator ignores any other values	Always populate with constant value N
APPL_JRNL_ID	Journal generator template ID. Identifies the journal defaults and summarization options for the accounting entry.	This column will be populated by ODI using the AIA DVM, which maps EBiz Application Short Name with PSFT Journal GeneratorTemplate .
ACCOUNT ALTACCT DEPID OPERATING_UNIT PRODUCT FUND_CODE CLASS_FLD PROGRAM_CODE BUDGET_REF AFFILIATE AFFILIATE_INTRA1 AFFILIATE_INTRA2 CHARTFIELD1 CHARTFIELD2	ChartFields: • GL Account • Alt Account • Department • Operating Unit • Product • Fund Code • Class Field • Program Code • Budget Reference • Fund Affiliate • Operating Unit Affiliate • Generic ChartField 1 • Generic ChartField 2	This column will be populated by ODI based on the AIA DVM, which maps EBiz COA Segments with PSFT ChartField.

PSFT Column	PSFT Column Description	Comments
CHARTFIELD3 PROJECT_ID BOOK_CODE	• Generic ChartField 3 • Project	
MOVEMENT_FLAG	This field defines the natural or reversal nature the amount if you enabled the Separate Debit / Credit processing.	Always populate with constant value N, which implies natural direction of the amount i.e. positive amount means debit and negative amount means credit.
RT_DIV	Rate Divisor	Always populate with constant value 1. EBS does not use currency rate divisor.
RT_MULT	Rate Multiplier	Currency conversion rate used to convert foreign currency
RT_TYPE	Currency Conversion Rate Type	Currency conversion rate type mapped using DVM.
LEDGER	PSFT Ledger name	This column will be populated by AIA using the DVM which maps EBiz Ledger Short Name with PSFT Ledger
LEDGER_GROUP	PSFT Ledger Group	AIA will derive this value from the LEDGER and BUSINESS_UNIT_GL.
JOURNAL_ID	PSFT internal journal ID	Populate with a single blank space. The Journal Generator process populates the journal ID and journal date fields after it distributes the accounting entry to a general ledger journal.
JOURNAL_DATE	Journal Date	Leave this field NULL (single space). The Journal Generator process populates the journal ID and journal date fields after it distributes the accounting entry to a general ledger journal.
JOURNAL_LINE	PSFT journal line number	Populate with zero. Populated by the Journal Generator after it distributes the accounting entry to a general ledger journal if the Cross Product Drill Down option on the Accounting Entry Definition page is selected.
FISCAL_YEAR	Fiscal year	Populate with zero. Journal Generator process populates the accounting period and fiscal year after it distributes the accounting entry to a GL journal based on the

PSFT Column	PSFT Column Description	Comments
		journal date.
ACCOUNTING_PERIOD	Accounting period	Populate with zero. Journal Generator process populates the accounting period and fiscal year after it distributes the accounting entry to a GL journal based on the journal date.
PROCESS_INSTANCE		Populate with zero. Populated by Journal Generator when it distributes the accounting entry to a general ledger journal.
STATISTICS_CODE	Statistics code	Populate with a single blank space. This integration does not support Statistical amount functionality.
Statistical Amount	Statistical Amount	This integration does not support Statistical amount functionality; however, statistical accounts from PeopleSoft are merely transferred to Financials Accounting Hub with a null account type and stored as informational data only.