End-to-End Supplier Migration

Oracle EBS R12 to Fusion Cloud via OIC

Session Objectives & Learning Outcomes

What you will master by the end of this training module

1. Data Model Mapping

Compare Oracle EBS R12 supplier tables (`AP_SUPPLIERS`) with Fusion Cloud Trading Community & Supplier models (`POZ_SUPPLIERS`).

2. 8-Step Conversion Lifecycle

Execute extraction, profiling, cleansing, FBDI template preparation, ZIP packaging, SFTP staging, and OIC ingestion.

3. Automated OIC Orchestration

Design scheduled integrations using FTP Adapter, Stage File, and Oracle ERP Cloud Adapter with ESS Job Callbacks.

4. Error Handling & Reconciliation

Troubleshoot interface rejections in `POZ_*_INT` tables and perform post-load BI Publisher reconciliation.

End-to-End 8-Step Supplier Migration Flow

Visualizing the pipeline from EBS R12 source extraction to Fusion Cloud base tables

STEP 1

Extract from R12

SQL / BIP query on `AP_SUPPLIERS` & `HZ` tables

STEP 2

Analysis & Validation

Duplicate check, TIN/PAN & mandatory fields

STEP 3

Cleansing & Mapping

Map OU to BU, Payment Terms & Batch IDs

STEP 4

FBDI Preparation

Populate `.xlsm` templates in parent-child order

STEP 5

CSV & ZIP Generation

Run FBDI macro to create Oracle ZIP files

STEP 6

SFTP File Placement

Stage ZIP files into `/inbound` directory

STEP 7

OIC Processing

FTP Adapter + ERP Adapter + ESS Callback

STEP 8

Load into Fusion

UCM → `POZ_*_INT` → `POZ_*` Base Tables

Steps 1 & 2: R12 Extraction & Data Profiling

Extracting clean active vendor records and validating against Fusion rules

Step 1: EBS R12 Source Tables & Scope

- **Supplier Header:** `AP_SUPPLIERS` (Vendor Name, Number, Tax Org Type)
- **Supplier Sites:** `AP_SUPPLIER_SITES_ALL` (Site Code, Purchasing/Pay flags)
- **Addresses:** `HZ_PARTY_SITES` & `HZ_LOCATIONS` (Street, City, Postal, Country)
- **Contacts:** `AP_SUPPLIER_CONTACTS`, `HZ_PARTIES` & `HZ_RELATIONSHIPS`
- **Bank Accounts:** `IBY_EXT_BANK_ACCOUNTS` & `IBY_ACCOUNT_OWNERS`
- **Extraction Filter:** Active suppliers (`END_DATE_ACTIVE IS NULL`) and vendors with open POs, Invoices, or active contracts

Step 2: Data Analysis & Validation Checks

- **Duplicate Detection:** Identify duplicate Supplier Names, Tax Registration Numbers (GST/PAN/TIN), and DUNS numbers
- **Mandatory Fields:** Audit Country Codes (ISO 2-char), Supplier Type, and Tax Organization Type
- **Business Relationship:** Classify vendors as Spend Authorized vs. Prospective
- **Orphan Record Audit:** Flag sites without valid addresses or contacts missing site assignments
- **Special Characters:** Detect embedded line breaks, tabs, or unescaped commas that break CSV parsing

Step 3: Data Cleansing & Functional Mapping

Aligning legacy R12 structures with Oracle Fusion Cloud setups

Migration Dimension	EBS R12 Source Concept	Fusion Cloud Target Mapping
Organization Structure	Operating Unit (`ORG_ID`)	Procurement Business Unit (BU Name)
Supplier Classification	Vendor Type Lookup	Supplier Type & Tax Organization Type
Payment & Terms	AP Terms & Pay Groups	Fusion Payment Terms & Pay Group Lookups
Address & Contact Model	TCA Party / Site / Contact	Supplier Address → Site → Site Assignment → Contact
Batch Control	Legacy Vendor ID	Unique Import Batch ID (e.g., `BATCH_101`)

Key Cleansing Rule: Standardize phone formats, strip commas/newlines from address lines, and set `Import Action = CREATE`.

Steps 4 & 5: FBDI Templates & Parent-Child Load Order

Strict dependency sequence required by Oracle Fusion Supplier Import

1. Suppliers Header

`SupplierImportTemplate.xlsm → PozSuppliersInt.zip`

Creates master supplier profile, tax org type, and business relationship.

2. Supplier Addresses

`SupplierAddressImportTemplate.xlsm → PozSupplierAddressesInt.zip`

Loads physical locations and address purposes (Ordering, Remit-to).

3. Supplier Sites

`SupplierSiteImportTemplate.xlsm → PozSupplierSitesInt.zip`

Links addresses to Procurement BUs with purchasing/pay site attributes.

4. Site Assignments

`SupplierSiteAssignmentImportTemplate.xlsm → PozSupplierSiteAssignmentsInt.zi`

Maps supplier sites to Client BUs and Bill-to BUs.

5. Supplier Contacts

`SupplierContactImportTemplate.xlsm → PozSupplierContactsInt.zip`

Attaches contact persons, emails, and user account requests to sites.

6. Bank Accounts (Payments)

`DisbursementBankAccountImportTemplate.xlsm (or REST API)`

Loaded separately under Cash Management / Payments after sites exist.

Steps 6 & 7: SFTP Staging & OIC Orchestration

Automating file pickup, bulk import invocation, and callback handling

Step 6: SFTP Directory Architecture

- `/inbound/suppliers/` : Landing zone for generated FBDI ZIP archives
- `/processing/` : Temporary staging during active OIC execution
- `/archive/suppliers/` : Successfully submitted ZIP files with timestamp
- `/error/suppliers/` : Rejected ZIP files and ESS error logs
- **Naming Standard:** `PozSuppliersInt_Batch01_YYYYMMDD.zip` for sequential polling

Step 7: OIC Integration Flow Design

- **1. Schedule Trigger:** Polls SFTP server on defined interval (or App-Driven)
- **2. FTP Adapter (List & Download):** Reads matching ZIP files into OIC `/tmp` stage
- **3. Stage File Validation:** Verifies file size and record presence before upload
- **4. ERP Cloud Adapter:** Invokes 'Import Bulk Data into Oracle ERP Cloud'
- **5. Callback Integration:** Listens for ESS job completion (`SUCCEEDED` / `ERROR`)
- **6. Sequential Trigger:** Launches child entity import only after parent succeeds

Step 8: Oracle Fusion Cloud Ingestion Internals

What happens inside Fusion once OIC submits the FBDI ZIP package

Phase 1: UCM Content Server

`fin/payables/import`

- ERP Cloud Adapter uploads the ZIP file directly into Universal Content Management (UCM).
- Assigns a unique UCM Document ID tracked by OIC.

Phase 2: Interface Table Load

`Load Interface File for Import`

- Fusion automatically spawns the ESS job to unzip and parse the CSV.
- Populates staging tables: `POZ_SUPPLIERS_INT`, `POZ_SUPPLIER_SITES_INT`, etc.

Phase 3: Base Table Import

`Import Suppliers ESS Job`

- Validates business rules, lookups, duplicates, and tax registrations.
- Inserts clean records into production tables: `POZ_SUPPLIERS` & `POZ_SUPPLIER_SITES_ALL_M`.

Error Handling & Post-Migration Reconciliation

Ensuring zero data loss and audit-ready sign-off

Exception & Error Management

- **OIC Callback Capture:** Receive ESS execution logs & error ZIP directly in OIC
- **Automated Routing:** Move failed files to SFTP `/error` and send email notification
- **Interface Rejection Analysis:** Query `POZ_SUPPLIERS_INT` where `STATUS = 'REJECTED'`
- **Common Fixes:** Correct invalid lookup codes, duplicate supplier names, or missing BU assignments
- **Re-submission:** Fix rejected rows in FBDI, increment Batch ID, and re-process

Reconciliation & Cutover Sign-Off

- **Control Totals:** Compare R12 Extract Count vs. Interface Loaded Count vs. Base Table Count
- **Entity-Level Audit:** Reconcile Suppliers, Addresses, Sites, Site Assignments, and Contacts separately
- **BI Publisher Report:** Run custom Fusion SQL reconciliation report comparing `POZ_SUPPLIERS` against R12 staging
- **Functional Smoke Test:** Create test Purchase Order and AP Invoice for migrated suppliers
- **Business Sign-Off:** Obtain formal approval from Procurement & Payables leads

Overview Q&A & Hands-On Labs

Practical lab exercises to execute this end-to-end flow in your training environment

Lab 1: FBDI ZIP Generation

Populate `SupplierImportTemplate.xlsm` with 3 test records, generate `PozSuppliersInt.zip`, and upload to SFTP `/inbound/suppliers/`.

Lab 2: OIC Connections

Configure and test `WM_SFTP_CONN` (FTP Adapter) and `WM_FUSION_ERP_CONN` (Oracle ERP Cloud Adapter).

Lab 3: OIC Orchestration

Build `WM_SUPPLIER_FBDI_IMPORT` with List Files, For-Each loop, Download File, Import Bulk Data, and Move File.

Lab 4: Monitor & Verify

Submit integration, monitor ESS jobs in Scheduled Processes, and verify active suppliers in Fusion Procurement.

Questions & Discussion