

Point of Service and E-Business Suite Integration : A Proposed Solution



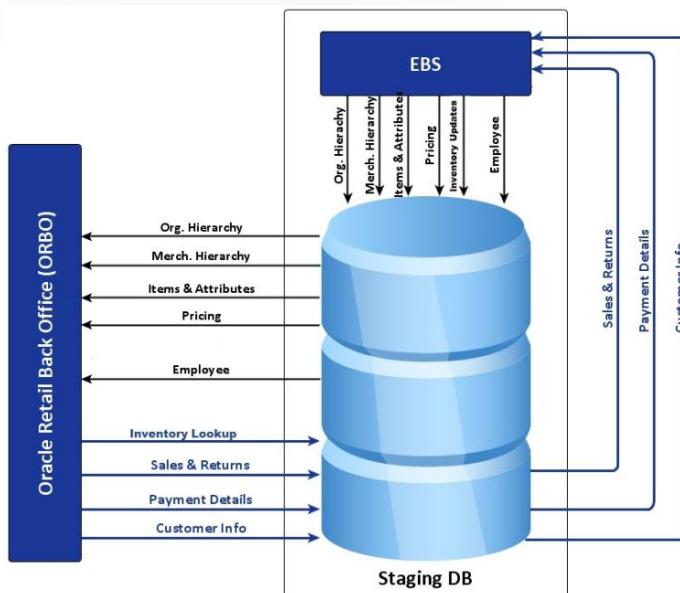
Overview

EROS has recently implemented Oracle E-Business Suite (Version 12.1.3) in their first phase and modules implemented include Financials (General Ledger, Accounts Payables, Accounts Receivables, Fixed Assets, Cash Management) and Distribution (Order Management, Inventory, Purchasing and Advanced Pricing).

As part of the second phase, EROS has decided to implement Oracle Retail POS (Point of Service) application and achieve integration between ORPOS and Oracle E-Business Suite. The scope of the integration involves development of Outbound APIs and Interface scripts to transfer details of daily sales including returns, customer receipts, inventory updating, etc. from ORPOS to Oracle E-Business Suite and development of Inbound Interface scripts to transfer of inventory data, pricing, bar code details, store hierarchy , organization hierarchy etc. from Oracle E-Business Suite to ORPOS application.

Process Map

The diagram below shows the data transfer flow from ORPOS to E-Business Suite and vice versa. The diagram shows three distinct environments namely Oracle E-Business Suite, Staging Table and Oracle Retail Back Office (ORBO). The connectivity between E-Business Suite and Staging Tables on the one side and Staging Tables and ORPOS on the other side will be established through DB Link.



Technical Overview

This section provides an overview of the technical solution.

Inbound Interface

- ❑ Through plsql procedure an interface program will extract the requisite inbound data like item details, store hierarchy, merchandise hierarchy, org hierarchy, bar code details, pricing etc. from the base tables of Oracle E-Business Suite, validate them and move them to staging tables through DB link. An oracle concurrent program will be scheduled to run continuously to move the data from E-Business Suite modules to staging table.
- ❑ Through the database link to the staging tables, a java program will extract the above data from the staging table and move it to ORPOS application.

Outbound Interface

- ❑ A Java program will extract the outbound data like daily sales, returns, customer receipts, inventory updating etc. from ORPOS application of each retail store, subsequently validate them and move them to staging tables through DB link..
- ❑ An Oracle standard API will move through DB link, the requisite data from staging table to the E-Business Suite base tables after completing due data validations. An Oracle concurrent program will be scheduled to run at regular intervals to submit the standard API.
- ❑ As an alternative to Oracle Standard API, an open interface program will be developed to move through DB link, the requisite data from staging table to the interface table of the respective business area, and standard import program will be submitted from E-Business Suite to pull the data from the interface table to base tables of E-Business Suite. This program can be scheduled to run continuously.