

VNA-SB-016 | Enterprise ERP, EAM & VMware Modernization | Oracle E-Business Suite & PeopleSoft Cloud Migration | Sedona Copper

Oracle E-Business Suite (EBS R12) & PeopleSoft 9.2 Migration to OCI & Exadata Cloud@Customer

Enterprises running heavily customized Oracle E-Business Suite (R12.1 / R12.2) or PeopleSoft 9.2 do not need a disruptive \$50M SaaS re-implementation just to exit aging data centers. We migrate EBS and PeopleSoft to Oracle Cloud Infrastructure (OCI) or Exadata Cloud@Customer (ExaCC) using Oracle Cloud Manager, while replacing invasive Forms/OAF customizations with upgrade-safe Oracle APEX 24.2 extensions.

Search Queries & Scope Covered: migrate Oracle E-Business Suite EBS R12 to OCI | extend Oracle EBS R12.2 with Oracle APEX 24.2 ICX session | PeopleSoft Cloud Manager migration to Oracle Cloud Infrastructure | Exadata Cloud@Customer ExaCC for Oracle EBS | replace EBS custom XX Forms and OAF with Oracle APEX

SOURCE LEGACY STACK (STACK X)		MODERNIZED TARGET ARCHITECTURE (STACK Y)	
Oracle E-Business Suite (EBS 11i / R12.1 / R12.2) & PeopleSoft On-Premises		Oracle Cloud Infrastructure (OCI), Exadata Cloud@Customer (ExaCC) & APEX Extensions	
BATCH & CONCURRENT RUNTIME	CLONE PROVISIONING TIME	FORMS / OAF CUSTOMIZATIONS	DR READINESS
3x-8x Faster on ExaCC/OCI	Under 30 Minutes	Decoupled to APEX 24.2	Automated Cross-Region Standby

1. Problem Space & Architectural Bottlenecks

- On-premises Oracle E-Business Suite and PeopleSoft landscapes suffer from slow Concurrent Manager overnight batch windows, week-long manual DBA cloning procedures for DEV/TEST, and aging storage arrays.
- Hundreds of custom `XX\_` Oracle Forms (`.fmb`), OA Framework (OAF) Java extensions, and custom `APPS` schema triggers make applying EBS Release Update Packs (RUPs) or PeopleSoft PUM images slow and expensive.
- Strict data residency or low-latency shop-floor integrations often require keeping the database tier inside the corporate data center on Exadata Cloud@Customer (ExaCC) while modernizing lifecycle automation.

2. Technical Solution & Reference Architecture

- 2.1 Automated OCI / ExaCC Migration via EBS Cloud Manager & PeopleSoft Cloud Manager:** We execute reduced-downtime physical/logical migrations of your database tier to OCI Base Database, Exadata Database Service, or on-premises ExaCC, paired with auto-scaling application tiers behind OCI Load Balancers.
- 2.2 Clean-Core Customization Decoupling with Oracle APEX 24.2 (`XX\_APEX` Schema):** Instead of modifying seeded EBS Forms or OAF pages, we refactor custom workflows into a dedicated Oracle APEX 24.2 schema integrated seamlessly with EBS ICX session cookies, FND responsibilities, and public PL/SQL APIs.
- 2.3 EBS Online Patching (`ADOP`) & Edition-Based Redefinition Compliance:** All APEX and PL/SQL integrations are engineered to respect EBS 12.2 Editioning Views (`#` views) so zero-downtime `adop` patching operates cleanly.
- 2.4 Zero-Space Fast Cloning & DR Automation:** Non-production EBS and PeopleSoft environments are cloned in under 30 minutes using Exadata sparse snapshots and OCI Object Storage backups.

3. Artifact-by-Artifact Conversion & Modernization Matrix

Legacy Artifact / Baseline Workload	Modernized Oracle / Cloud Target	Engineering Method & Outcome
Custom EBS Oracle Forms (`XX_*.fmb`) & OAF Pages	Oracle APEX 24.2 Pages with Native EBS ICX Session Auth	Supported EBS-APEX SDK & FND Responsibility Mapping
Legacy XML Publisher / Oracle Reports (`XX_*.rdf`)	APEX Interactive Reports + AOP / Analytics Publisher	Real-Time Operational Reporting Offload
Manual Multi-Day DBA Test Cloning	EBS / PeopleSoft Cloud Manager One-Click Fast Clones	OCI Snapshot & Terraform Automation
On-Premises SAN & Solaris/AIX EBS Database Tier	Exadata Cloud@Customer (ExaCC) or OCI Exadata DB Service	GoldenGate / RMAN Cross-Platform Cutover

4. Oracle APEX & Ancillary Engineering Toolchain

- Oracle E-Business Suite Cloud Manager & PeopleSoft Cloud Manager on OCI
- Oracle Exadata Cloud@Customer (ExaCC) & OCI Exadata Database Service
- Oracle APEX 24.2 & ORDS (certified EBS extension architecture)
- Viscosity `vai\_ebs` Integration Connectors & AMP Governance

Anonymized Production Proof: Across national laboratories, global workforce contingent-labor platforms, and manufacturing enterprises, our team has migrated mission-critical Oracle E-Business Suite and PeopleSoft environments to Exadata Cloud@Customer and OCI, cutting month-end close batch times by over 65%.

5. Principal Architect Q&A

Q: Can Oracle APEX users launch pages directly from the E-Business Suite Navigator without logging in twice?

A: Yes. We configure the official Oracle EBS-APEX authentication scheme and ICX session validation package so users click a menu item in EBS R12 and land directly in the APEX 24.2 page inheriting their exact `USER\_ID`, `RESP\_ID`, and `RESP\_APPL\_ID` context.

Q: Should we choose Exadata Cloud@Customer (ExaCC) or public OCI Exadata Database Service?

A: Choose ExaCC when data sovereignty regulations or sub-millisecond factory/lab LAN latency require the hardware to sit inside your physical data center under an OPEX subscription. Choose public OCI when you want full data center exit.

Q: What is included in the downloadable PDF Solution Brief?

A: The PDF Solution Brief includes the EBS R12.2 + APEX 24.2 Clean-Core Reference Architecture (Edition-Based Redefinition compliant), the ExaCC vs. OCI sizing guide, and our zero-downtime EBS Cloud Manager cutover plan.