

VNA-SB-015 | Enterprise ERP, EAM & VMware Modernization | Legacy ERP Decommissioning & Serverless Compliance Archive | Sage Canyon

JD Edwards (JDE), PeopleSoft & Legacy ERP Decommissioning to Read-Only Audit Archive

After migrating to Oracle Fusion Cloud ERP or Workday, municipalities and enterprises often keep legacy JD Edwards (`F0911`, `F0411`, `F0901`), PeopleSoft, or E-Business Suite servers running in 'read-only mode' for 7 to 10 years just to answer auditor and FOIA requests. We extract, decode, and verify 100% of your historical ERP ledger and attachments into an immutable Apache Parquet + Oracle APEX / DuckDB compliance archive so you can decommission legacy hardware and maintenance contracts immediately.

Search Queries & Scope Covered: JD Edwards decommissioning archive | archive JDE F0911 F0411 F0901 after Oracle Fusion go-live | convert JD Edwards Julian dates CYYDDD and UDC F0005 | read-only legacy ERP compliance archive PeopleSoft EBS | retire IBM i AS/400 JD Edwards World server

SOURCE LEGACY STACK (STACK X)		MODERNIZED TARGET ARCHITECTURE (STACK Y)	
JD Edwards (World / EnterpriseOne), PeopleSoft, EBS & SAP Legacy ERPs		Apache Parquet + DuckDB / Oracle Autonomous DB + APEX Read-Only Archive	
LEGACY ERP MAINTENANCE SAVED	STORAGE FOOTPRINT COMPRESSION	QUERY RESPONSE TIME	AUDIT VERIFICATION
100% Terminated	85-92% (ZSTD Parquet)	< 300ms on 100M+ Rows	100% Trial Balance Tie-Out

1. Problem Space & Architectural Bottlenecks

- When transitioning to a new cloud ERP, migrating 15 to 25 years of historical line-item transactions (`F0911` Account Ledger, `F0411` AP Ledger, `F0414` Check Detail, `F06116` Payroll History) into the new SaaS ERP bloats subscription costs and pollutes clean-core charts of accounts.
- Leaving the old JD Edwards AS/400 (IBM i) or Windows/Unix database servers online for read-only lookups costs \$150,000 to \$500,000+ per year in hardware, OS, database, and ERP support renewals.
- Raw database dumps are unusable because JD Edwards stores dates in 6-digit CYYDDD Julian format, implied decimal currencies without decimal points, and cryptic User Defined Codes (`F0005` UDCs) across `PRODDTA` and `PRODCTL`.

2. Technical Solution & Reference Architecture

- 2.1 Automated JDE / PeopleSoft Semantic Decoder:** Our extraction pipeline converts raw JDE tables (`F0901`, `F0902`, `F0911`, `F0411`, `F0413`, `F0414`, `F03B11`, `F0101`, `F0005`, `F00165` Media Objects) into both raw Bronze tables and human-readable Silver/Gold semantic views with ISO dates, scaled decimals, and joined UDC descriptions.
- 2.2 Dual-Storage Medallion Architecture (Parquet + Autonomous DB / DuckDB):** All historical tables and PDF/TIFF voucher attachments are written to immutable, WORM-compliant Object Storage as ZSTD-compressed Apache Parquet files, queryable either via Oracle Autonomous Database / APEX 24.2 or a zero-server DuckDB analytical engine.

- 2.3 Pre-Built Auditor & FOIA Search Portal: Finance and HR staff search historical vendor payments, general ledger journals, purchase orders, and W-2/payroll stubs through a familiar web interface with one-click Excel/PDF voucher export.
- 2.4 Cryptographic Trial-Balance & Control-Total Certification: Every archived fiscal year is reconciled to the penny against legacy `F0902` Account Balances and signed with SHA-256 manifest hashes for external auditors.

3. Artifact-by-Artifact Conversion & Modernization Matrix

Legacy Artifact / Baseline Workload	Modernized Oracle / Cloud Target	Engineering Method & Outcome
JDE `F0911` (GL), `F0902` (Balances) & `F0901` (Accounts)	Decoded GL Journal & Trial Balance Archive View + Parquet	Julian Date (`CYYDDD`) & Implied Decimal Normalization
JDE `F0411` (AP Voucher) & `F0413`/`F0414` (Payments)	Vendor Payment History & Check Inquiry Portal	`F0101` Address Book & `F0005` UDC Semantic Join
JDE `F00165` Media Objects & Scanned TIFF/PDF Vouchers	OCI Object Storage / GCS Bucket + Signed URL Viewer	Attachment Checksum Extraction & Indexing
Aging IBM i (AS/400) or Legacy ERP Servers	Serverless Parquet Archive + Oracle APEX / DuckDB UI	Complete Hardware & Support Contract Retirement

4. Oracle APEX & Ancillary Engineering Toolchain

- Viscosity JDE / PeopleSoft / EBS Semantic Decoder & Trial-Balance Verifier
- Apache Parquet (ZSTD) + DuckDB / Oracle Autonomous Database External Tables
- Oracle APEX 24.2 Read-Only Auditor Portal & APEX Office Print (AOP)
- OCI Object Storage Retention Rules (WORM Compliance) for 7-to-10-year statutory retention

Anonymized Production Proof: *Architected for major municipal governments and manufacturing enterprises retiring legacy JD Edwards and on-premises ERP environments following cloud ERP cutovers, preserving 100% of historical GL, AP, AR, and procurement records while eliminating six-figure annual legacy support bills.*

5. Principal Architect Q&A

- Q: How do you handle JD Edwards Julian dates, implied decimals, and `F0005` UDC lookups?

A: Our pipeline preserves the untouched raw source columns for forensic audit traceability while automatically materializing decoded ISO-8601 dates, decimal-scaled currency columns (via `F0013` currency decimals), and human-readable UDC descriptions.
- Q: Can this archive run with zero ongoing database server licensing?

A: Yes. We offer both an Oracle APEX on Autonomous Database Serverless option and a 100% serverless Parquet + DuckDB-Wasm / Cloud Run deployment that costs less than \$50/month in cloud object storage.
- Q: What is included in the downloadable PDF Solution Brief?

A: The PDF Solution Brief includes the complete JDE Table & Media Object Extraction Catalog (`F0911`/`F0411`/`F00165`), the Julian/Decimal transformation spec, and our Auditor Tie-Out Certification checklist.