VNA-SB-046 | Orphaned Oracle Stack Rescue (Discoverer, Workflow & EBS CEMLI) | Informatica PowerCenter Exit to OCI Data Integration & ADW

Informatica PowerCenter & Legacy ETL to OCI Data Integration, ODI & Autonomous Data Warehouse

Transition from High-Cost Informatica PowerCenter 10.x Repositories, XML Mappings, Workflows & Staging Servers to OCI Data Integration Serverless + Oracle Data Integrator (ODI) + ELT Pushdown on Oracle 23ai ADW with automated binary/AST metadata profiling, deterministic cost-control levers, auto-generated BRD and test documentation, and a fixed-fee 4-phase delivery roadmap.

Search Queries & Scope Covered: informatica powercenter to oci data integration | convert informatica xml mappings to odi sql | informatica powercenter end of support migration | etl to elt pushdown oracle autonomous data warehouse

SOURCE LEGACY STACK (STACK X)	MODERNIZED TARGET ARCHITECTURE (STACK Y)
High-Cost Informatica PowerCenter 10.x Repositories, XML Mappings, Workflows & Staging Servers	**OCI Data Integration Serverless + Oracle Data Integrator (ODI) + ELT Pushdown on Oracle 23ai ADW**

XML MAPPING PARSING	ETL LICENSE SAVINGS	BATCH THROUGHPUT	MIDDLE-TIER SERVERS
90% Automated	**60% - 75%**	**3x - 8x Faster ELT**	**100% Retired**

1. Problem Space & Architectural Bottlenecks

- Critical business operations remain trapped in High-Cost Informatica PowerCenter 10.x Repositories, XML Mappings, Workflows & Staging Servers, creating audit risk, manual reconciliation overhead, and rising support costs.
- Duplicate queries, cloned reports, and undocumented triggers make impact analysis slow and expensive across source-to-target staging tables & lookups.
- Lack of automated binary-to-database metadata mapping causes traditional consulting shops to pad estimates with 40% manual discovery buffers.
- Leadership needs a predictable, fixed-fee phased timeline with verifiable test specifications and zero-downtime cutover guarantees.

2. Technical Solution & Reference Architecture

2.1 Automated Phase 0 AST & binary scan mapping High-Cost Informatica PowerCenter 10.x Repositories, XML Mappings, Workflows & Staging Servers artifacts directly to live Oracle dictionary metadata and profiling production data.

2.2 Target architecture built on OCI Data Integration Serverless + Oracle Data Integrator (ODI) + ELT Pushdown on Oracle 23ai ADW, consolidating cloned queries into governed core SQL views with runtime Smart Filters.

2.3 Automated generation of full Business Requirements Documents (BRD), Technical Approach Docs, Testing Specifications, and Verified Test Results.

2.4 Zero-trust SSO/MFA (Entra ID / Okta) paired with database-enforced row-level security (VPD / RAS) and SQLcl Liquibase CI/CD pipelines.

3. Artifact-by-Artifact Conversion & Modernization Matrix

Legacy Artifact / Baseline Workload	Modernized Oracle / Cloud Target	Engineering Method & Outcome
Source Tier: High-Cost Informatica PowerCenter 10.x Repositories, XML Mappings, Workflows & Staging Servers	OCI Data Integration Serverless + Oracle Data Integrator (ODI) + ELT Pushdown on Oracle 23ai ADW	Automated AST & Metadata Uplift (85%-95%)
Primary Footprint: Informatica PowerCenter Mappings & Workflows	Oracle APEX 24.2 Redwood UI + PL/SQL APIs	Binary-to-DB Metadata Mapping + Pilot Sprint
Workload & Queries: Source-to-Target Staging Tables & Lookups	Canonical Core SQL Views + Runtime Smart Filters	Query Fan-Out Clustering (75%-90% Reduction)
Undocumented Legacy Business Rules & QA	Auto-Generated BRD, Approach Doc, Test Specs & Results	100% Automated Documentation & utPLSQL / Playwright

4. Oracle APEX & Ancillary Engineering Toolchain

- Oracle APEX 24.2 & Universal Theme (Light Architecture)
- Oracle Database 23ai / Autonomous Database (ATP / ADW)
- Viscosity Automated Binary (.fmb/.rdf) & AST Metadata Profiler
- Auto-Doc Engine (BRD, Approach Doc, Test Specs & Test Results)
- Oracle REST Data Services (ORDS) & APEX Office Print (AOP)
- SQLcl Liquibase CI/CD, utPLSQL & Playwright Regression Suites

> ***Anonymized Production Proof:*** *Parsed and converted 1,100+ Informatica PowerCenter XML mappings and sessions into native set-based ELT pipelines on Oracle Autonomous Data Warehouse, eliminating $380k in annual ETL renewal fees.*

5. Principal Architect Q&A

Q: What are the primary levers that control the cost of Informatica PowerCenter to OCI Data Integration?

A: Cost is controlled by five levers: (1) collapsing cloned query fan-out across source-to-target staging tables & lookups into canonical core SQL views, (2) percentage of business logic already in database packages vs. UI triggers, (3) production data quality profiled during Phase 0, (4) external integration/SSO count, and (5) cutover downtime requirements.

Q: How does your tool convert binaries (.fmb, .rdf, etc.), map database metadata, and generate documentation?

A: Our automated analyzer parses legacy binaries and source files, extracts every trigger, query, and UI control, cross-references them against live database dictionary metadata (ALL_TAB_COLUMNS, ALL_DEPENDENCIES), profiles actual column data distributions, and automatically generates the Business Requirements Document (BRD), Technical Approach Doc, Test Specifications, and Verified Test Results.

Q: What does a typical project timeline look like from kickoff to production cutover?

A: Projects follow four gated phases: Phase 0 (Weeks 1-2: Binary AST Scan, Data Profiling & Auto-Generated BRD), Phase 1 (Weeks 3-6: Core Schema Uplift & Working Pilot), Phase 2 (Weeks 7-12: Automated Conversion Sprints & Test Spec Execution), and Phase 3 (Weeks 13-16: Parallel Run, Zero-Downtime Cutover & 30-Day Hypercare).