VNA-SB-042 | Zero-Trust Identity (Entra/Okta VPD) & SLED Cooperative Procurement | Oracle ULA Exit Certification & LMS Audit Defense

Oracle ULA Exit Certification, LMS/GLAS Audit Defense & VMware Hard-Partitioning Architecture

Transition from Uncertified Oracle ULA Contracts, VMware vSphere Soft-Partition Exposure & LMS/GLAS Audit Scripts to Certified ULA Exit Baseline + OCI / OLVM Hard-Partitioned Compute + Zero-Penalty License Governance with automated binary/AST metadata profiling, deterministic cost-control levers, auto-generated BRD and test documentation, and a fixed-fee 4-phase delivery roadmap.

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SOURCE LEGACY STACK (STACK X)	MODERNIZED TARGET ARCHITECTURE (STACK Y)
Uncertified Oracle ULA Contracts, VMware vSphere Soft-Partition Exposure & LMS/GLAS Audit Scripts	**Certified ULA Exit Baseline + OCI / OLVM Hard-Partitioned Compute + Zero-Penalty License Governance**

AUDIT CLAIM EXPOSURE	ULA GRANT COUNT	HARD-PARTITIONING	AUDIT TURNAROUND
90%+ Mitigated	**Maximized**	**Oracle Verified**	**2 - 4 Weeks**

1. Problem Space & Architectural Bottlenecks

- Critical business operations remain trapped in Uncertified Oracle ULA Contracts, VMware vSphere Soft-Partition Exposure & LMS/GLAS Audit Scripts, creating audit risk, manual reconciliation overhead, and rising support costs.
- Duplicate queries, cloned reports, and undocumented triggers make impact analysis slow and expensive across oracle database, weblogic & java se instances.
- 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 Uncertified Oracle ULA Contracts, VMware vSphere Soft-Partition Exposure & LMS/GLAS Audit Scripts artifacts directly to live Oracle dictionary metadata and profiling production data.

2.2 Target architecture built on Certified ULA Exit Baseline + OCI / OLVM Hard-Partitioned Compute + Zero-Penalty License Governance, 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: Uncertified Oracle ULA Contracts, VMware vSphere Soft-Partition Exposure & LMS/GLAS Audit Scripts	Certified ULA Exit Baseline + OCI / OLVM Hard-Partitioned Compute + Zero-Penalty License Governance	Automated AST & Metadata Uplift (85%-95%)
Primary Footprint: Physical Hosts / VMware Clusters Running Oracle	Oracle APEX 24.2 Redwood UI + PL/SQL APIs	Binary-to-DB Metadata Mapping + Pilot Sprint
Workload & Queries: Oracle Database, WebLogic & Java SE Instances	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:*** *Guided an enterprise through an Oracle ULA exit certification and VMware cluster isolation architecture, certifying maximum processor entitlements while eliminating $4.2M in soft-partitioning compliance exposure.*

5. Principal Architect Q&A

Q: What are the primary levers that control the cost of Oracle ULA Certification & LMS Audit Defense?

A: Cost is controlled by five levers: (1) collapsing cloned query fan-out across oracle database, weblogic & java se instances 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).