MODIFIABLE RFP TEMPLATE & VENDOR Q&A RUBRIC | VNA-RFP-008 | Database X to Database Y

Request for Proposals (RFP): Oracle 7.3.4, 8i & 9i Solaris SPARC to Oracle 23ai Migration (ORA-28040 / SQL*Net V2)

Instructions for RFP Author: This template is structured so your IT, Architecture, and Procurement teams can issue a rigorous, apples-to-apples Request for Proposals. Customize the bracketed [Modifiable] fields below or use the companion .md file on the solution portal.

1. Issuing Organization & Procurement Schedule (Modifiable Fields)

RFP Field / Milestone	Modifiable Entry / Target Value
Issuing Organization & Sponsor	[Insert Legal Organization Name, Executive Sponsor & Primary Contact Email]
Project Scope Summary	Transition from Oracle7 (7.1.3 / 7.3.4) & Oracle8i/9i on Solaris SPARC / HP-UX (SQL*Net V2 / TNS) to Oracle Database 23ai / 26ai on Linux / OCI via Wire-Level Protocol Gateway
RFP Issue / Q&A; / Proposal Due Dates	[Issue: YYYY-MM-DD] | [Vendor Questions Due: +14 Days] | [Proposals Due: +30 Days]
Target Contract Type	Fixed-Price Milestone Deliverables with Automated Parity & Cutover Acceptance Gates

2. Mandatory Technical Scope of Work (Modifiable Requirements)

[REQ-ARCH-01] Linux SQL*Net v2 / TTC Wire-Protocol Translator (`sqlnet7-gateway`): A stateless, memory-safe Linux daemon listens on port 1521, accepts authentic `TNS 308 (SQL*Net 2.3.4)` handshakes, emulates `O3LOGON` authentication, and translates `OCI7` TTC calls into modern Oracle 23ai `OCI8` wire operations in real time.

[REQ-ARCH-02] Automatic ROWID & Datatype Shimming: The gateway intercepts legacy 18-character `BBBBBBBB.RRRR.FFFF` Oracle7 restricted ROWIDs and maps them bi-directionally to Oracle 23ai extended base64 ROWIDs so legacy `WHERE ROWID = :1` updates never fail.

[REQ-ARCH-03] Direct Schema & Character Set Uplift (`US7ASCII` / `WE8ISO8859P1` to `AL32UTF8`): We extract Oracle7 `.dmp` exports, sanitize legacy dictionary metadata, convert `LONG`/`LONG RAW` columns, and load directly into a Pluggable Database (PDB) on Oracle 23ai.

[REQ-ARCH-04] Unlock Modern Analytics & APEX on Live Legacy Data: Once the data resides in Oracle 23ai, you can immediately build Oracle APEX 24.2 dashboards, ORDS REST APIs, and AI Vector Search on the exact same tables your legacy 1998 binaries are updating.

3. Component Conversion & Acceptance Matrix

Legacy Artifact / Workload	Required Target Architecture	Engineering Method & Acceptance Gate
SQL*Net 2.0-2.3 (`TNS Version 305-308`) Connect Packet	Oracle Net Services 23ai (`TNS Version 318+`) + TLS 1.3	Wire-Level TNS Header & Capabilities Negotiation Proxy
Oracle7 `O3LOGON` DES Challenge-Response Auth	Oracle 23ai PBKDF2 / SHA-512 Session Pool	Gateway Credential Vault & Proxy Session Multiplexing
`OCI7` TTC Opcodes (`OOPEN`, `OPARSE`, `OEXFET`)	Modern `OALL8` Bundled Execute/Fetch Wire Calls	Stateful TTC Packet AST Translation
Oracle7 Restricted `ROWID` (`00001F2A.0001.0004`)	Oracle 23ai Extended `ROWID` (`AAAR3sAAEAAAACXAAA`)	`DBMS_ROWID` Bi-Directional Wire Interceptor
Solaris SPARC Big-Endian Physical Datafiles	Oracle 23ai Linux x86_64 / ARM64 PDB	Sanitized Logical Export/Import + Checksum Validation

4. Mandatory Vendor Q&A; Questionnaire & Evaluation Benchmark Key

Bidders must answer each technical question below. Evaluation committee members can compare vendor answers directly against the Reference Benchmark Key:

Vendor Question 1: Why doesn't a standard Oracle 11g database link bridge work for all Oracle 7.3.4 clients? *[Score: ___ / 10]*

Reference Evaluation Benchmark: An 11g bridge still requires maintaining an unsupported, unpatched 11.2.0.4 server, breaks when `OCI7` clients inspect `ROWID` strings or `V$SESSION` views, and doubles network latency across two database hops.

Vendor Question 2: Do we need the C / Pro*C / Forms 4.5 source code of our legacy client applications? *[Score: ___ / 10]*

Reference Evaluation Benchmark: No. You only point the legacy client's `tnsnames.ora` IP address to our Linux protocol gateway. The client binary believes it is still talking to an Oracle 7.3.4 instance on Solaris.

Vendor Question 3: What is included in the downloadable PDF Solution Brief? *[Score: ___ / 10]*

Reference Evaluation Benchmark: The PDF Solution Brief contains the wire-level packet architecture diagram (`TNS 0x0134` to `OALL8`), the `ROWID` and `O3LOGON` translation specification, and our zero-downtime cutover runbook.

Vendor Question 4: How do you rationalize report/query fan-out and guarantee 100% customer code & data ownership? *[Score: ___ / 10]*

Reference Evaluation Benchmark: Vendor must demonstrate AST SQL clustering to collapse cloned queries into governed core views with runtime/AI-inference filters, and deliver 100% customer-owned SQL, PL/SQL, APEX, or cloud code with zero proprietary runtime lock-in.

5. Commercial Milestone Pricing & Evaluation Weighting (Modifiable)

Phase / Deliverable Gate	Required Acceptance Output	Bidder Fixed Fee	Eval Weight
Phase 0: AST Discovery & Blueprint	Complete code/schema AST inventory, dead-code manifest & core SQL fan-out map	$ [Insert]	20%
Phase 1: Core Schema & Logic Uplift	Target cloud/DB provisioning, automated DDL/code conversion & unit tests	$ [Insert]	30%
Phase 2: UI, Reports & UAT	Modernized UI/portals, runtime/AOP reports, security VPD/SSO & UAT sign-off	$ [Insert]	30%
Phase 3: Cutover & Hypercare	Zero-downtime cutover, row/hash reconciliation & 30-day production warranty	$ [Insert]	20%